

MKITTARA

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MEMORANDUM FOR: THE RECORD

SUBJECT : Schedule of Grant Payments MKULTRA 22

November 1961 to November 1962

 Due Nov 1, 1961
 \$3,852.00

 Due Feb `, 1961
 3,852.00

 Due May 1, 1961
 3,853.00

 Due Aug 1, 1961
 3,853.00

TOTAL GRANT \$15,410.00

7 October 1959

12,3

MEMORANDUM FOR: THE RECORD

CUTO TOCOD

: Schedule of Grant Payments MKULTRA 22

November 1959 to October 1960.

Due Due Due	Nov 1, 1959 Feb 1, 1960 May 1, 1960 Aug 1, 1960	2891.75 2891.75 2891.75 2891.75
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22.9

Preject MKULTA. Subproject 22 Date Initiated: 28 January 1954

Date Expires: Continuing

Funds-current year: \$11,567.00

Purpose: Isolation end investigation of the active principals of certain botanicals of interest.

Status: Final fructions are being studied on the Rivea corymbosa
separation, considerable progress has been made on the
separation of the active constituents of Amanita muscaria,
and a start has been made on the separation of Rhynchosia
phaseoloides

ACCOUNTING BY INDIVIDUAL	INDIVIDI	141	NKULT	MKULTRA,		Subproject #22	#22	-			OUCHER NO	VOUCHER NO. (Finence use only)	use only	2
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April 17, 1964

-To:--

A,B,C, H

principal investigator

Re:

Final financial accounting for renewal of research grant entitled

November 1, 1962 - July 15, 1963 Period of grant:

For professional services rendered in research Travel expenses return by auto and plane Living expenses at Laboratory fee at

expenditures \$7705.

This is a correct accounting of funds received by me as as grantor.. grantee from

A have examined and approved the submitted expenditures.

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B. C

OFFICE OF RESEARCH ADMINISTRATION

May 1, 1963

Director

Incorporated

- Commen

Your check for \$2,575.00, representing the third quarterly payment for research work, was received today.

Thank you for taking care of this matter for us.

Very truly yours,

Assistant Research Administrator 05

12.9

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22

\$7,705.00

22 April 1963

32.0010 AB

Cordially

Dear allached are two copies of accounting on the grant funds at all appears to be in order. If there are any questions just let me know.



Report of Expenditures . November 11, 1961 to October 31, 1962/ 22. E AB, C,

Grantor: Grantee: Fund: 8-

, Frincipar investigator

Mar. 14, 1962

Income:

BUSINESS OFFICE

\$7,705.00

Expenditures:

Salaries and Wages	\$1,905.00
Travel -	1,021.65
Equipment	2,252.99
Supplies	1,206.34
Other Expenses:	
Telegraph service 9	.27
Telephone 169	.06
	.06

Overhead @ .1376 of direct costs ____1,053.63

7,705.00

Balance

-0-

I certify that the above statement of account is correct to the best of my knowledge.

Business Manager

I have examined and approved the submitted expenditures.

TSD/Biological Branch

32.12

6 August 1962 A, B, C

MEMORANDUM FOR THE RECORD

SUBJECT

Authorization was given this date to

extending (

grant time until 1 August 1963.

TSD/Biological Research

26 March 1962

12.13, AB, C

MEMORANDUM FOR THE RECORD

SUBJECT

: Support of Research on

- 1. This date discussed in detail the status of our research on the physiologically active principles of the mushrocative principles of the mushrocative principles of the mushrocative the principal investigator on this project, has made outstanding progress in the rosearch has progressed to the point where it is important to engage in more detailed phases.
- 2. In discussing the projected research, said that he was unable to engage in certain critical phases due to lack of contact with certain types of apparatus. He was of the opinion that it was most important to bring into the research picture an outstanding research worker who was knowledgeable in the field of drugs natural products.
- 3. Following consultation with discussions were held between the consensus that this work could best be undertaken in the laboratories of was in complete agreement with this since it would permit him to devote full time to his research and at the same time, obtain much needed information on researches first hand.
- 4. pointed out, however, that he would be unable to carry out such a program without additional support. He stated that he had been in correspondence with and had received several cordial invitations to work in laboratories. Pointed out that his expenses would be in excess of \$10,000, owing to the fact that he would have his family to transport and take care of. He was advised that the grant could not undertake support to this extent, but that it would be possible to use about 1 of the existing grant to reimburse him for his professional services, transportation, and a portion of his living expenses while in residence at He was informed that he, porsonally, would have to make his own arrangements about the additional funds required. Stated that this was quite agreeable to him and that he would take the necessary steps.

22,13

THE REAL PROPERTY.

5. Arrangements were made with whereby to f the grant would be withheld from and given directly in support of this was concurred in by Chief, TSD, and

COMM

TSD/Biological Research

- 2 -

BUSINESS OFFICE

Report of Expenditures November 1, 1960 to November 10, 1961

Grantor: 1 Grantee

Fund: 6795-76

Incomes

Expenditures:

Salaries & Wages (Incl. Fellowships) Travel Equipment Supplies

Publication and preparation of thesis Other expensess

Telephone Miscellaneous

Overhead @ 15% direct costs

Total Expenditures,

Balance

10

\$3,850,00

1,107.10 1,150.65 1,684.99

146.11

8.01

130.25

I certify that the above statement of account is correct to the best of my knowledge

Business Manager

33.4

November 8, 1961

B,E,

Gentlemen:

We are pleased to be able to transmit to you the following funds:

Check No. drawn on the the dated November 2, 1961, for \$15, 410,00.

Check No. drawn on the the dated November 2, 1961, for \$616.40.

These funds represent a contribution for the use of your directors in carrying out the very worthwhile research goals of your organization.

Yours truly,

Enclosures: (2)

8 11:36:11 00: 014: N 219 71-80 CERTIFIED FOR PAYMENT OR CREDIT ah: 780.91 SIGNATURE OF CERTIFYING OFFICER 01.963 21 7.42 DATE DATE CLASS 25-1390- 7917 157 TOTALS VOUCHER NO. ALLOY. ON COST ACCT. NO. CONFIDENTIAL FUNDS POSTING VOUCHER DATE 53 54-57 GENERAL CA LEDGER YRACCT. NO. 1010 134 REVIEWED DATE 2-6 1:1 40-42 EXPEND COOE OATE DESCRIPTION- ALL OTHER ACCOUNTS 13-33 10.59 606 use PREVIOUS COLVIONS ADVANCE ACCOUNTS 13-27 EXPLANATION OF ENTRY VOUCHER NO. 7-12 Souder

A 32:30

A,E,B

12 October 1961

MEMORANDUM FOR: CHIEF, FINANCE DIVISION

WIA

DED Brigget Officer

SUBJECT

MINIARA, Subproject 22 Invoice #11 Allotment No A

Invoice No. 11 in the amount of \$16,026.40 covering the above subproject is attached. Payment should be made as follows:

Cashier's check in the amount of \$15,410.00, drawn on

Cashier's check in the amount of \$616.40, drawn on a

Both checks should be ende payable to

2. The checks should be forwarded to Chief, TSD/Research Branch, through TED/Budget Officer, no later than 3 Hovember 1961.

This is a final invoice. However, since it is anticipated that additional funds will be obligated for this project, the files should not be olosed.

> Chief TSD/Research Branch

Attachment: Invoice & Certifications

Distribution: Orig & 2 - Addressee IN THE AMOUNT OF 5

12,10

A.E.C

12 October 1.961

MEMORANDUM FOR: CHIEF, FINANCE DIVISION

TSD/Budget Officer ATA

MULTRA, Subproject 22 Invoice \$11 SUBJECT

Allotment Ho

1. Invoice No. 11 in the amount of \$16,026.40 covering the above subproject is attached. Payment should be made as follows:

Cashier's check in the amount of \$15,410.00, drawn on

Cashier's check in the amount of \$616.40, drawn on a

Both checks should be nade payable to

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3. This is a final invoice. However, since it is anticipated that additional funds will be obligated for this project, the files should not be closed.

> Chief TSD/Research Branch

Attachcents Invoice & Certifications

Distributions Orig & 2 - Addressee

1 - TSD/FASS 2 - TSD/RB

AUTHORIZING OFFICER

CERTIFY THAT FUNDS ARE AVAILABLE, 18,007

22.00 A. 7

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282 use PREVIOUS EDITIONS.

12,0

INVOICE

B) &

. . . .

\$16,026.40

CERTIFICATIONS

(1) It is bereby certified that this is In cice 11 applying to Sub-project No. 22 of MKULTRA, that performance is satisfactory, that services are being accomplished in accordance with mutual agreements, that a detailed agends of the payments and receipte is on file in TSD/RB, that this bill is just and correct and that payment thereof has not yet been made.

Chief, TSD/Research Branch

Date:

(2) It is hereby certified that this invoice applies to Subproject of MKULTRA which was duly approved, and that the project is being carried out in accordance with the memorandum of 13 April 1953 from the DCI to the state of the accordance of this authority in subsequent memoranda.

Research Director

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and the same





Cost Account

Object Class

Date	Remarks and References	Obligations Incurred	Obligations Liquidated	Unliquidated Balance
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27 September 1961

A, B

MEMORANDUM FOR: COMPTROLLER

ATTENTION

: Finance Division

SUBJECT

Project MKULTRA, Subproject #22
Additional Authorization #9

Under the authority granted in the Memorandum dated

2 13 April 1933 from the DCI to the and and the extension of
this authority in subsequent memoranda, Subproject 22 has
been approved, and \$16,026,40 of the over-all project MKULTRA
funds has been obligated to cover the subproject's expenses and
abould be charged to Allotment 2125-1390-3902.

APPROVED FOR OBLIGATION OF FUNDS: Chief, TSD/Research Branch

Research Director

1198

Date:

1 CERTIFY THAT PUNOS ARE AVAILABLE
ORIGINATION FERTIFICATION
CHUICH TO ALLOTHING IN

Distribution:
Orig & 2 Addressee

AUTHORIZING CHICER

1 - TSD/OC 1 - TSD/FASS 2 - TSD/RB

RB

A

(27 Sept. 61)







27 September 1961

MEMORANDUM FOR: THE RECORD

A,B,C

SUBJECT

: Project MKULTRA, Subproject #22

- 1. The purpose of this Subproject is to provide funds to continue the researches of Prof. On the isolation of compounds from natural products which have psychogenic properties. Prof. is concentrating his studies on isolation and identification of active materials in the fungus Amanita muscaria. Studies will be extended to active principles in Rhynchosia phaseoloides.
- 2. Progress in the studies of Amanita has been significant to date. It is believed that the chemical entity primarily responsible for the hallucinogenic effects of Amanita muscaria has been isolated. Because of the extremely small amount in the fungus, and due to the lack of sufficient quantities of plant material the amount isolated has been insufficient for complete structure elucidation. Effort during the coming year will be directed to obtaining adequate supplies of fresh material and the carrying out of various extraction and concentration procedures. Chemical and biological techniques will be utilized to identify and characterize the active principles which are of interest to TSD.





will serve as cutout

for transfer of funds to the investigator. The estimated cost as outlined in the budget proposal is \$15,410.00. To this must be added the 4% service charge to the cutout, making the total cost for one (1) year not in excess of \$16,026.40. Charges should be made against allotment 2125-1390-3902.

- 4. A Memorandum of Agreement has been signed by the contractor whereby title to permanent equipment is retained by the little to permanent equipment are made for accounting for funds disbursed under the grant.
- 5. It has been mutually agreed that documentation and accounting for travel expenses under the grant which are reimbursable by the shall conform with the accepted practices of that institution.
- 6. Prof. holds a covert clearance under Project MKULTRA and has agreed to comply with the terms of the Memorandum of Agreement.

APPROVED FOR OBLIGATION OF FUNDS: TSD/Research Branch

Research Director

1120

#1231

Date:___

Attached: Budget

Distribution: Orig. only

A



RENEWAL OF A RESEARCH GRANT

Investigation of the Physiologically Active Principles of Amanita Muscaria and Other Plants of Potential Medicinal Value

Grant date: November 1, 1961 - October 31, 1962

Principal Investigator

Executive Secretary

President

0

22-25

BUDGET PROPOSAL 1961-62

Sala	ries	and	wages	

10,00

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	Post Dectorate (12 mo.) Director's stipend (3 mo.) Student help	\$6,000 1,500 500	- 0.00
Travel	·		
<u> </u>	eetings and travel in connection with work	\$ 600)
	September, 1962	1,000	
Sample coll	ection and preparation		
1	,000 pounds of Amenita Muscaria at \$2.00/16., etc.	\$2,500	ì
Analyses, 1	iterature and special chemicals, etc	\$ 500)
Equipment -	Attended to the following the second		
U R	nimelt Melting Point Apparatus lotary Molecular Still, Özone Meter	\$ 800)
	*	\$13,400	5

Overhead 15%

12-2k

16 December 1960



Gentlemen:

We are pleased to be able to transmit to you the following funds:

Check drawn on the Company of \$8,634.57.

drawn on the of , dated 15 December 1900, for \$345.38.

These funds represent a contribution for the use of your directors in carrying out the very worthwhile research goals of your organization.

Yours truly,

Enclosures: (2)

29 November 1960

CHIEF, FIRANCE DIVISION HEMORANDUM FOR:

TSD/Buiget Officer VIA

MOULTRA, Subproject 22, Invoice #10 SUBJECT Allotment 1125-1009-1902

1. Invoice No. 10 in the enount of \$9,645.38 covering the above subproject is attached. However, due to refunds of \$665.43 from this project (as per attachment) payment should be made as follows:

> Cashier's check in the amount of \$8,634.57, drawn benk benk Cashier's check in the amount of \$345.38, drawn

on a bank. Both checks should be made payable to

2. The checks should be forwarded to Chief, TSD/Research Branch, through TSD/Budget Officer, no later than Wednesday,

3. This is a final invoice. However, since it is anticipated that additional funds will be obligated for this project, the files should not be closed.

TSD/Research Branch

Attachments Invoice & Certifications

Distributions Ottg & 2 - Addresses

7 December 1960.

>1 - TSD/FASS THE AMOUNT OF SEATS CHECK

RECEIVED.

AUTO-CELEG CATICER

981

1125-1390-2912

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4.645.38 34.38 1.548918 110343 AMOUNT 13886 CERTIFIED FOR PAYMENT OR CREDIT SIGNATURE OF CERTIFYING OFFICER 881176 9.64538 11830 7-12 62.67 CK. NO. CLASS X RCF. NO. CLASS 601.0 45-1390-3902752 601.0 2502-75-902754 TOTALS VOUCHER NO. 808 3 ALLOT. OR COST A9 58.67 いたい CONFIDENTIAL FUNDS POSTING VOUCHER DATE CODE TANKES 156 1011 REVIEWED DATE 2.6 STATION 40-42 CODE EXPEND 5.88 1188 De PROJECT RO. 34.39 STATION CODE DATE DESCRIPTION-ALL OTHER ACCOUNTS 13-33 54 606 use enevious torrions. ADVANCE ACCOUNTS 13-27 OF ENTRY VOUCHER NO. 7-12 EXPLANATION 2 Ser





\$ 8,979.95

For Services

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Chief, TSD/Research Branch

CERTIFICATIONS

(1) It is hereby certified that this is Invoice No. 10 applying to Subproject 22 of MKULTRA, that performance is satisfactory, that services are being accomplished in accordance with mutual agreements, that a datailed agenda of the payments and receipts is filed in TSD/RB, that this bill is just and correct and that payment thereof has not yet been made.

Date:			
22 under MKULT	eby certified that this RA which was duly approv	ed and that the pro	ject is being
carried out in the DCI to the memoranda.	accordance with the men DD/A, and the extension	orandum dated 13 A of this authority	in subsequent
,			

22-20

(3) It is hereby certified that Under subproject 22 at the close of Fifs a balance of \$665,43 representing unused funds remained in subproject 22. Additional funds (FI 125-1009-1902) have been approved for continuing subproject 22. Therefore, it is requested that \$665,43 of Invoice No. 10 be credited subproject 22 as a return of unused funds (FI 9-2502-75-902), NOR 2707.

		Chief, TSD/Research Branch
Date:		
	1	
		Research Director
Date:	!	<u> </u>
		· · ·



D 22-69

Object Class

Date	Remarks and References	Obligations Incurred	Obligations Liquidated	Unliquidated Balance
21 NOV	white het is with	9672.0		9672.0
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15 November 1960

MEMORANDUM FOR: COMPTROLLER

ATTENTION

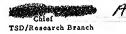
: Finance Division

SUBJECT

: Project MKULTRA, Subproject \$22

Additional Authorization #8

Under the authority granted in the Memorandum dated 13 April 1953 from the DCI to the DD/A, and the extension of this authority in subsequent memoranda, Subproject 22 has been approved, and \$9,672.00 of the over-all project MKULTRA funds has been obligated to cover the subproject's expenses and should be charged to Allotment 1125-1009-1902.



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15 November 1960

MEMORANDUM FOR: THE RECORD

SUBJECT

: Project MKULTRA, Subproject #22

1. The purpose of this Subproject is to provide funds
to continue the research of Prof.

isolation of compounds having psychogenic and related properties from natural products. Prof.

is concentrating his C

studies on Rivea Corymbosa variety and Amanita

Muscaria and has isolated some active materials which are of interest.

- 2. Difficulties in obtaining properly documented raw materials in sufficient quantity for further research have been to a large extent overcome. Considerable renewed interest on the part of several drug companies of foreign origin in related fungi and plant materials believed to have central nervous system activity indicate that there may be chemical compounds in the natural products under study of considerable TSD interest.
- serve as cutout for transfer of funds to the investigator. The





estimated cost for the coming year of the work is \$9,300.00.

To this must be added the 4% service charge to the cutout, thus the total cost for one year will not exceed \$9,672.00.

Charges should be made against allotment 1125-1009-1902.

- 4. A Memorandum of Agreement has been signed by
 the contractor whereby title to permanent equipment is retained
 by the University in lieu of higher overhead charges and arrangements are made for accounting for funds disbursed under the
 grant.
- 5. It has been mutually agreed that documentation and accounting for travel expenses under the grant which are reimbursable by the University shall conform with the accepted practices of that institution.
- 6. Prof. holds a covert clearance under Project
 MKULTRA and has agreed to comply with the terms of the

Memorandum of Agreement.



TSD/Research Branch

APPROVED FOR OBLIGATION OF FUNDS:

Research Director

Date: 11/18/60

Attached: Budget

Distribution: Original only



BUDGET 1961

SALARIES	\$4,500		
SUPPLIES and EQUIPMENT	2,000		
SPECIAL CHEMICALS	500		
SPECIAL ANALYSES	350		
TRAVEL & COMMUNICATION	600		
LIBRARY SERVICE	150	 	
	\$8,100	 	
OVERHEAD			
(15% of Direct Costs)	1,200		
TOTAL	\$9,300		



PROPOSAL TO

for renewal of support to investigate

The Physiologically Active Principals of Amanita Muscaria and Rives Corymbosa

Principal Investigator

President

12-34

PROGRESS REPORT

for

Grant Fiscal Year 1959-60

During this year work has progressed to the point where crystalline substances with physiological action have been isolated from
Rivea Corymbosa and Amanita Muscaria. Rather than review all the
work in detail two papers are attached which describe the principle
aspects of the investigation during the year. The first of these
is a paper which has been submitted for publication time
regarding Rivea Corymbosa. The second is an adoption of a
taper regarding Amanita Muscaria which was presented before the
Amagust 15-25, 1960.



stage relicing point of 257 and 3. The glassical variations become stage relicing point of 257 and 3. The glassical estate has been assigned a replacement formula of Charles Copy. The compound vertains seven essents, which indicates cover hydroxyla: Riemental analysis: Found Co. 58.215, if a 7.155, (Rest) splanular usignt Olo, scattl 36.325. Calculated for Charles Copy. The 2525031; Co. 58.255, H. & 6.565, maleurlar usigns 863.20, for sever accordingly.

The placeside was hydrolysed by appending it in a methanol-bated solution (15) when and 25% notional) with emalsia. The sugar exist, was identified as glucone by paper chromategraphy and further confirmed by the propagation of the phenylocatone and the penth-actions.

groups 35.626. The coapsend gives a negative allowyl reaction.

abo egluccha sas remystallised fivalyster and settasol to a corptuvolting point of 185-165°. The eglucoma bas been essigned a molecular fomula of G₂₀8₆₀0, a Slowentel analysist Found, C o 65.128, R = 9.078,

The book of the color of the second of the color of the c

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cetate pasture assigned a primite formula of 0;0,400; ... The concount
contains four a citie, which this kies two typicoyis. Pluments analysis
contains four a citie, which this kies two typicoyis. Pluments analysis
contains four a cities and the cities of 500 acetyl = 28.00;
1;0 = 52.60 n.a0; (= 1122 nc/all in pyrillor); calculated for
0;0 = 12.00 n.a0; (= 12.00 nc/all in pyrillor); calculated for
0;0 = 1.00 n.a0; (= 1.00 nc/all in pyrillor); calculated for

1: has been any rical the givening hoss but obtain measuration by the following measure tests: 1. Secural addition, 2. oromolysis, and 3. shifting of terranity mathems.

29.65%.

The carron at latin respect studied by means of debydrogeration with S palladiew on charcoalist 300. Premathrene has been included from the desydrogeratice productiousing column chromatography (misorbent allocate column and the basis of salting point, infrared spectrum and ultraviolate spectrum. The their programs have been corrected as [1] 2-methyl maphtheless by its picture valid is relleved and has a salting point of 115-116°, the compound was not isolated, but the ultraviolate spectrum is sixther to that reported for other maphtheless derivatives. [2] 16-methyl 2-ethyl person thress, which has a crange picrote salting at 105-100°, has been characterised. The ultraviolat spectrum is sixther to the parties of the ultraviolat spectrum is sixther to the parties of the ultraviolat spectrum is sixther to the reported for phanacterised. The ultraviolat spectrum is sixilar to those reported for phanacterists deficientives.



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A careful rechack	of our experimental data confirm	,是是,以及特色。但是如果的特殊。
formiled ve ere r	sporting. Worses, it is possible	1 that [19-
pertid by)and, Some loay differ from	the glucoside reported
hare, it is most	likely that the two are identical	. In all cases our are-
"海"的长期上的。程,今年	re reported of crystalline, court	数据的数据的 医二次性性性炎
的复数医心理的 计图像 的复数	Lations were run on compounds who	到1964年,1964年,1964年1964日,
THE WALL WILL STATE	e scatylation. On the basis of the	外接以持续的 14 cm 2 cm 15 cm
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ated pyrand-papth	alens which contains four hydroxy.	la and three other ony-
serbird on earg	hors, and the second	

Presented before they

August 18, 1960

The first slids (Dot included) given a pycologists view of the plant unterfal which is the subject of this paper. A veriation of the same species has yellow coloration with white vericles. Strictly speaking this is not a poisonous plant gor in the tock shoot as some plant.

For saveral centuries a large member of investigators from various countries have abulied this beautiful fungue with different vierpoints. Chemists, physiologists, pharmacologists, pathologists, botanists, groologists and recently, as well as saven hondred years and assault explorers such as Albertus Magnus in 1276 and [and] [within the past five years.

Practitioners in the field of perchansivets and extra sensory perception also have investigates and reported on the michaeons field result there is an economis rate of literature on the subject, sees of which is open to considerable doubt and term to the subject, sees of which is open to considerable doubt and term to which is contractifully it televe, which may or may not have basis in truth, data interest in the limit to the minth century when Norse tribes are reported to have used it under the mass fluggroup (or fly mistroom) as a narroutic which gave rise to the Percentaging of the saga period of Viking history.

It is a vall established feet that the fungus is still used by certain seasons giberian tribes for its chrectic and hallucinogenic effects. Although it was these characteristic psycopassescolosic effects in husens which symmet research on Aranita Funcarie, the charical agent (or agents) which give rise to the effects has not been reported in the literature.

An impressive count of work has been reported by easy vorters on the isolation and proof or structure of cuscarias from frantia Maderia. This alkaloid of unusual atructure and high toxicity has physiological effects in humans and tent falleds which bears alight rescallance to the main effects of the imported whole maintrock. Salts of augustico have been isolated in pure form and its atructure.

In our work pretrar then tollowing tract one extraction procedures for isolating elkaloids, the screept was rade of concentrate course, or even alignth acidle fractions. Sail wors importantly early are that a fresh of at longues followey biosessy to order, bigaragete those of action builds are far to test entasts And there will not disease an engel tiller effects like those of surcaring . The netted of the selling area, it has a relative for the selling the selling e this procedure we have test able in date, by so hain fractions in which are se

concentraced Lal-2; and tuscarinic STIDE

nie last reference la anjercellent besterreview be vork on averaline up to

SLIDE LII

these important sopers point his the liverent difficulties devolved in the isolation of suscerice with fire successes extract vas isolated by Schoelber. Morever, Margin 1922 has the first to often pure value of the base ettent, to locate wange from the surge tried inscribe species ittamis notable leprovenents, balanoite's reported vields aractor unude extrac got the pure sait?

These references institute in the attempts to isolate the ballucinoses of principle of Aparita Miscaria, wheleng and Mothel reported in presence of Suforenin in America Mappe, Fanther on and Miscerine, The alkalold mapping reported from A Mappa was found to be identical to Bufotenia. The Bufotenia was not

actually isolated but was identified by corpostography. Purthermore, considerable to cast on this essertion as well as that by toxis as a result of subsequent

The Collected about 200 lb. of America Wascarto for our work. The fresh plants were issediately dropped into inchessal not extraction to dead to show as the previous filters was used with 200 ltm.

C health buscuite.

TILY SCILL

The section of a legislation of partitions with Shilly hand 70% aguious

normandig installation Agrondation extern, was minimal dispressionally fractions of interesting activity.

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In fraction committee of essential oils van subjected to summing chromatography and two sain fractions, were obtained; These very examined in some detail. Although quite studies in baran of contralization equivalent and exponification equivalent, the bloose as indicated considerable difference. Ny parpy were activity was concentralized in Tiena hydratic activity and concentralized in Tiena hydratic activity a

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the of extract.

HIGH EXPLIC

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HILE XIX

"6" on proloced refrigeration yielded crystals of D.L. sandtol. The supercatent resisted further purification by chromatography.

he resides from Privious chromatography was extensively fractionated with theb and natroductoforms. The major product obtained was additional enyetallin sterial. Handler to thest obtained from "F". It is possible that tole material



Research Plans for 1960-61.

As indicated in the accompanying progress reports and papers related to the research supported by the grant, several crystalline substance have been isolated from Amanita Muscaria and Rivea Corymbosa. Future work will be organized to accomplish the following objectives:

- 1. Ascertain, by means of biological testing, which, if any, of the crystalline materials exhibit significant physiological effects in test animals. (This work is being carried out under the supervision of Dramate at the
- Complete fractionation and purification of crude concentrates which exhibit physiological effects in test animals. When pure crystalline substances are isolated they will be identified or structural elucidation will be attempted.
- 3. For those substances, which exhibit significant physiological effects and which have novel structure, an attempt will be made to synthesize them and compounds with related structure in order that relative physiological activity can be determined.

At the recent it was revealed that has isolated three indolic compounds related to Lysergic acid from Rives Corymboss. Also it was learned by private conversation that research teams of several of the countries leading drug firms have isolated flavanoid glycosides from Rivea Corymbosa. The structures have not been determined nor has work been published other than that by and and in (1960). As a result of these (1960). As a result of these developments less emphasis with be directed toward continuation of who as a pre-doctoral graduate this investigation. Dr 4 student worked on this problem, is now located at and plans to complete structural elucidation of the glycoside isolated in our laboratory from Rivea Corymbosa. If it is possible to obtain a sizable quantity of Rivea Corymbosa from an area in where the plant is used for medicinal or occult purposes, then it is proposed that the sample be carefully investigated to ascertain if it contains indolic compounds or glycosides significantly different from the samples collected in areas where the plant is not utilized for its physiological action.

2238

PROPOSED BUDGET FOR FISCAL YEAR 1960-61 November 1, 1960 - October 31, 1961

Research Fellowship (a) \$200 per month	\$2400
Miscellaneous student help (a) \$1.50/hr. (400 hrs.)	600. Salur
Stipend for senior investigator (during summer)	1500
Special chemicals, natural product samples, and supplies (expendable)	500 🖌
Special analyses on research samples	350 🗸
Travel and communication in connection with project	600 -
Special books, reprints, manuscript and slide preparation and translations related to project	150 🗸
Capital Items:	
1. Ozone meter for ozonolysis apparatus which we have	100
 Matching funds for photoelectric attachment for Model No. 80 Rudolph Polarimeter 	500
 Components (sweep unit, coils and probe) to adapt our NWR for fine line work in connection with project 	1400
	\$8100
Indirect costs (15% of request)	1200 91215
Total request in renewal of grant	\$9300

Report of Expenditures Hovember 1, 1959 - October 31, 1960

Pund 6795-76 CLOS.TUDUI

THEOLOGIE

\$11,067.00

Expenditures:

Salarice and Wagne (including Pellowships) Supplies and Expenses Fourment Doctrovo Total Expenditures

Balance as of Cotober 31, 1960

[have examined and approved the submitted expenditures.



account 1s correc

Chemical Division

Dates 1//2 1/20

Business Manages

I certify that the above stedement of



8B

22-90

USINESS OFFICE



Report of Expenditures November 1, 1959 - October 31, 1960

Fund 6795-76 OLOLIUQUI

INCOME:

\$11,067.00

Expenditures:

Salaries and Wages (including Fellowships) \$5,909.00
Supplies and Expenses 1,840.79
Equipment 0 1,197.00
Total Expenditures

10,401.57

Balance as of October 31, 1960

\$665.43

I certify that the above statement of account is correct

Business Manager

BUSINESS OFFICE



Report of Expenditures Movember 1, 1959 - October 31, 1960

Fund 6795-76 OZOLTUQUE

THICCHE:

Expenditures:

Salaries and Wages (including Fellowships) \$5,909.00 Supplies and Expenses Equipment Overhead Total Expenditures

1,197.00 10,401.57

1,840.79

I certify that the above statement of

Balance as of October 31, 1960

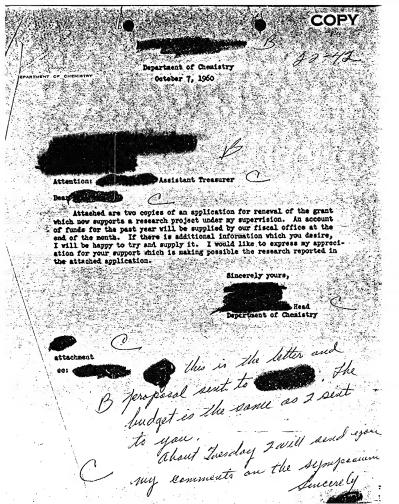
\$665.43

I have examined and approved the submitted expenditures.

account is correct.

TSS/Chamical Division

Taton 24 march 1961



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22-44

27 January 1960

MEMORANDUM FOR: THE RECORD

SUBJECT

: Action on MKULTRA Audit Exceptions -- TSS/CD

SP#22

A. \$1,703.57 was used for SP#51 per memo dated 21 August 1959. \$1,437.50 being held in will be utilized on another project in the near future.

Chief

Chief TSS/Chemical Division

22-45



Report of Expenditures
July 1 to October 31, 1959

Fund 6795-76 OLOLIUQUI:

Overdraft, June 30, 1959. Income: \$ (185.32) 5,365.00 \$5,179.68

Expenditures

Salaries & Wages (including fellowships) Supplies and Expenses Equipment Overhead

Overhead Total

Balance, October 31, 1959

\$1,960.00 334.24 1,294.63 1,590.81

5,179.68



I have examined and approved the submitted expenditures.



TSS/Chemical Division

Date: 2172 1961

A

B 32-46

July 30, 1959



. . . .

Executive Secretary-Treasurer

Enclosed is the financial report as prepared by our treasurer on the grant which your organization made to Dr. The report covers the full period from November, 1957, to June 30, 1959. We will be happy to furnish further itemizing should you so require.

I am happy to report that considerable progress is being made on this rather difficult project. Dr. As two very promising doctoral candidates assigned to the problem. They are devoting a great deal of time and concentrated effort to this investigation. We are grateful to the has given us for this particular investigation.

Sincerely

Executive Director

cc/

~





B 22-47

Period of Report November 12, 1957 to June 30, 1959

Fund 6795-76 OLOLIUQUI:

Income

B

\$21,684.00

Expenditures

Salaries and Wages Supplies and Expenses Equipment Total Expenditures \$7,141.73 1,418.38 13,309.21

21,869.32

Overdraft, June 30, 1959

\$185.32

I have examined and approved the submitted expenditures.

Chief TSS/Chemical Division

Dates

7 OCT 1959

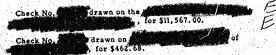
8 September 1959

32-48



Gentlemen:

We are pleased to be able to transmit to you the following funds:



These funds represent a contribution for the use of your directors in carrying out the very worthwhile research goals of your organization.

Yours truly,

Eaclosures: (2)

No 2707

Cost Assount	-	0-2503.	75.902

Object Class _____

Date	Remarks and References	Obligations Incurred	Obligations Liquidated	Unliquidated Balance
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CERTIFIED FOR PAYMENT OR CREDIT

SIGNATURE OF CERTIFYING 一、大学をはまるはん

280.47

DATE

REVIEWED BY

DATE OF SE

14

を記念を表現れて

25 August 1959

MEMORANDUM FOR: CHIEF, FINANCE DIVISION

VIA

Mark Street and Street TSS/Budget Officer

SUBJECT

MKULTRA, Subproject 22, Invoice 49 Allotment 9-2502-75-902

1. Invoice #9 covering the above subproject is attached. Payment should be made as follows:

Cashler's check in the amount of \$11, 567.00, drawn

Cashier's check in the amount of \$462.68, drawn on

Both checks should be made payable to

2. The checks should be forwarded to Chief, TSS/Chemical Division, through TSS/Budget Officer, no later than 4 September 1959. BANK WAS BURNESS OF THE STATE OF

3. This is a final invoice. However, since it is anticipated that additional funds will be obligated for this project, the files should not be closed.

> Chief TSS/Chemical Division

Invoice & Certifications REDEIVED. IN THE AMOUNT OF SHALL

Distribution; Orig & 2 - Addr

RECEIVED

THE AMOUNT OF SAG



For services

\$12,029.68



CERTIFICATIONS

(i) It is hereby certified that this is lavoice No. 9 applying to MKULTRA Subproject 22, that performance is satisfactory; that the services are being accomplished in accordance with mutual agreements, that a detailed agenda of the payments and receipts is on file in TSS/CD, that the bill is just and correct and that payment thereof has not yet been made.

Chief, TSS/Chemical Division

Date

(2) It is hereby certified that this invoice applies to MKULTRA Subproject 22, which was duly approved; and that the project is being carried out in accordance with the memorandum dated 13 April 1953, from the DCI to the DD/A, and the extension of this authority in subsequent memoranda.

Research Director

Date:





(3) It is hereby certified that the program under subprojects 49 and 59 have been a disfactorily completed and returned unused funds. However, subproject 22, which is still continuing also refunded money. Therefore, it is requested that the amounts all shown below on Invoice No. 10 of subproject 51-B be credited to the subprojects as shown below.

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Chlef, TSS/Chemical Division

Date:

Research Director

Date:

25 June 1959

MUMORAHUM FOR: COMPTROLLER

1. Pinence Division **第一个工作的**

BUBLECT

Project MULERA, Subproject 22 Additional Authorization #7

Under the authority granted in the Memorandum dated **第四条件的基础的企业工程的企业工程,但是是国立企业工程** 13 April 1953 from the DCI to the DD/A, and the extension of this 李老连有智力的第三届工作工作的证明,但在1966年代。 authority in subsequent meacrenis, Subproject 22 has been approved, and \$12,029.68 of the over-all project MULIBA fonds has been the term of the property of th obligated to cover the subproject's expenses and should be sharged to Allowent 9-2502-75-902.



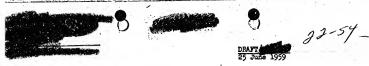
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Distributions Orig & 2 - Addresses

> 1 - TSS/CC 1 - TSS/FASB 2 - TSS/CD

(29 June 1959)



MEMORANDUM FOR: THE RECORD

SUBJECT : Project MKULTRA, Subproject 22

1. The purpose of this Subproject is to provide funds to continue the research of Prof. on the isolation of compounds having psychogenic and related properties from natural products. Its concentrating his studies on Rivea Corymbosa or variety and Amanita Muscaria and has isolated some active materials which are of interest.

- 2. Difficulties in obtaining properly documented raw materials in sufficient quantity for further research have been to a large extent overcome. Considerable renewed interest on the part of several drug companies of foreign origin in related fungi and plant materials believed to have central nervous system activity indicate that there may be chemical compounds in the natural products under 150 study of considerable 388 interest.
- 3. cutout for transfer of funds to the investigator. The estimated cost for the coming year of the work is \$11,567.00. To this must be added the 45 service charge to the cutout, thus the total cost for one year 7,772 will not exceed \$12,029.68.
- 4. A Memorandum of Agreement has been signed by the contractor whereby title to permanent equipment is retained by the University in lieu of higher overhead charges and arrangements are made for accounting the Dunks disbursed under the grant.





- 5. It has been mutually agreed that documentation and accounting for travel expenses under the grant which are reimbursable by the University shall conform with the accepted practices of that institution.
- 6. Profession holds a covert clearance under Project MKULTRA Cand has agreed to comply with the terms of the Memorandum of Agreement.

Chief
PSS/Chemical Division
15D / Zessanh Broads

H

APPROVED FOR OBLICATION OF FUNDS:

Research Director

ite: 6/30/59

Attached: Budget

Distribution: Original only BUDGET FOR 1960

22-55

Salaries	\$6,060.00
Supplies and Equipment	2,171.00
Special Chemicals and Materials	1,000.00
Special Analyses	300.00
Travel and Communications	400.00
Library Service	100.00

15% Overhead of Direct Costs 1,536.00

TOTAL \$11,567.00





22-56

Budget for One Year Renewal of Research Project on Investigation of Amanita Muscaria and Rivea Corymbosa - Nov. 1, 1959-Oct. 31, 1960

Research Fellowships - two (a) \$200 per month	\$4800.00
Senior Investigator - during summer	1200.00
Capital Equipment - (Electric desalting apparatus, explosion proof homogenizer, vacuostat, spinning paper chromatography apparatus, etc.)	
Special Chemicals and supplies not ordinarily stocked by Department of Chemistry	850.00
Special analyses on research samples	300.00
Travel and telephone in connection with grant	450.00
Miscellaneous - phottocopy, monographs, etc	50.00
15% overhead	1,507.00
Mat-1	11 567 00



6 January 1959

Finance Division ATTRETT OF

: Project MODITA, Subproject 22 SUBJECT. Additional Authorization #6

Under the authority granted in the Memorandum dated 13 April 1953 from the DCI to the ED/A, and the extension of this authority in subsequent nemorenda, Subproject 22 has been approved, and \$394.68 of the over-all project MULIFA funds has been obligated to cover the subproject's expenses and should be charged to Allotment 9-2502-75-902.

> Chief 788/Chemical Division

AFPROVED FOR CELICATION OF FUNDS:

search Director

7 JAN

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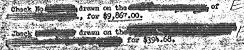
1 - TSS/SRB 2 - TSS/CD

Quit.



Gsutle ni

le are pleased to be able to transmit to you the following funds:



These finds represent a contribution for the use of your directors in carrying out the very vortashile research goals of your organization.

Yours truly,

Enclosurest (2)

3 Movember 1958

HENCHANDE FOR: CRIEF, FINANCE DIVISION

.. VIA

186/Budget Officer

SUBJECT

MEULTRA Subproject 22, Invoice No. 8 Allotment 9-2502-75-902

1. Invoice #8 covering the above subproject is attached.
Faguent should be unde as foll/es:

Cashier's check in the amount of \$9,867.00 drawn on a Cashier's check in the amount of \$394.68, drawn on a

Both checks should be made psymble to

2. The checks should be forwarded to Chief, TSS/Chemical Division, through TSS/Budget Officer, no later than 17 Nov. 58.

3. This is a final invoice. However, eince it is anticipated that additional funds will be obligated for this project the files about not be closed.

Chief

Attachments: Invoice & Certifications

Distribution: Orig & 2 - Addresses

1 - Comptroller

1 - TSS/FASB

w(37,758) A

For services

110.261.68

CERTIFICATIONS

(1) It is hereby certified that this is Invoice No. 8 applying to MULITRA Subproject 22, that performance is satisfactory; that the services are being accomplished in accordance with mutual agreements, that a detailed agenda of the payments and receipts is on file in TES/CD, that the bill is just and correct and that payment thereof has not yet been made.

Chief, T88/Chemical Division

Dates

(2) It is hereby certified that this invoice applies to MULTPA Subproject 22, which was duly approved, and that the project is being carried out in accordance with hhe memorandum dated 13 April 1953, from the DCI to the ID/A, and the extension of this authority in subsequent memorands.

Dates

Besearch Director



4 June 1957

MEMORANDUM FOR: CHIEF, PINANCE DIVISION

VIA

TSS/Budget Officer

SUBJECT

MKULTRA Subproject 22, Invoice No. 6

Allotment 7-2502-10-001

1. Invoice No. 6 is attached covering the above subproject. Payment should be made as follows:

Cashier's check in the amount of \$158.67, drawn on & Cashier's check in the amount of \$3,966.67, drawn on

Both checks should be made payable to the

The state of the state of

- Please forward the checks to Chief, TSS/Chemical Division through TSS/Budget Officer by Tuesday, 18 June 1957. AND THE PROPERTY OF THE PARTY O
- 3. This is a final invoice. A total of \$6, 188.00 was obligated under this subproject during FY 57. However since it is anticipated that additional funds will be obligated for this project. the files should not be closed;

Chief TSS/Chemical Division

CHECK#044

RECEIVE

Attachments:

Invoice & Certifications Washington and the

Distributioni Orig & 2 - Addressee

1 - Comptroller

D. 887-001226-600.1-2021202001-17:1-4913534

STIFIED FOR PAYMENT OR CREDIT

THORIZED CERTIFYING OFFICER

HE AMOUNT OF SE



INVOICE

For services

84, 125, 34



CERTIFICATIONS

(1) It is hereby certified that this is Invoice No. 6 applying to MKULTRA Subproject 22, that performance has been satisfactory, that the services have been accomplished in accordance with mutual agreements, that a detailed agenda of the payments and receipts is on file in TSS/CD, that this bill is just and correct and that payment thereof has not yet been made.

Chief. TSS/Chemical Division

Date:

(2) It is hereby certified that this invoice applies to MKULTRA Subproject 22, which was duly approved, and that the project is being carried out in accordance with the memorandum dated 13 April 1953, from the DCI to the DD/A, and the extension of this authority in subsequent memoranda.

Research Director



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	IISCELLANEOUS OBLIGATION RECORD			CHARGE	9 7515
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9 22-64

24 Cotober 1958

MINORANDOM FOR: COMPROLIER

ATTRACTOR : Pinence Division

SUBJECT : Frajest MULTIA, Subgroject 22

Under the cutherity greated in the Memorandum dated

13 Ageil 1953 from the DUI to the DD/A, and the extension of this
authority in subsequent memorands, Subproject 23 has been approved,
and \$9,867.00 of the over-all project MOLIFA funds has been
obligated to cover the subproject's expenses and should be charged
to Allotment 9-2502-75-908.

2000

Chief TSS/Chemical Division

APPROVED FOR CHLICATION OF PURDS

Assessed Director

Date

Distribution: Orig & 2 - Addresses

> 1 - TSS/CC 1 - TSS/FASB

1 - TSS/SRB 2 - TSS/CD CERTIFY THAT FUNDS ARE AVAILABLES ORIGINAL REFERENCE No. 1058

ANTHONION OFFICE

. .

3 Movember 1958

MEMORANDOM POR: CHIEF, PINANCE DIVISION

785/Budget Officer

MINISTER Subprojett 22, Invoice No. 8 SUBJECT

legt is attached. 1. Invoice 68 covering the above Payment should be made as follows:

Coshier's check in the ascent of \$9,867.08

Ceshier's check in the amount of \$394.68, drawn

Both checks should be made payable to

2. The checks should be forwarded to Chief, TSS/Chemical Division, through ISS/Budget Officer, no later than 17 Nov. 58.

3. This is a finel invoice. However, since it is anticipated that additional funds will be obligated for this project the files should not be closed.

> Chief 128/Chewical Division

Attachmentar

Invoice & Certifications

Distributions Orig & 2 - Addressee

1 - Comptroller

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2.	Pursona of Projects	Extraction of
	Natural Produc	ts.
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3. 2	Progress to Date:	Satisfactory
¥	Expiration Dates	30 October 1959
5.	Project Minitors	Dr. F
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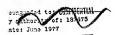


23 October 1958

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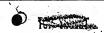
SUBJECT : Project MKULTRA, Subproject 22

- 1. The purpose of this Subproject is to provide funds to continue the work of Prof. on the isolation of psychogenic compounds from natural products. Prof. has been working on Rivea Corymbosa and Amanita Muscaria and has been able to isolate a number of interesting materials from these sources.
- 2. Progress in this field has been somewhat delayed due to difficulties in obtaining properly documented raw materials; however, sources have now been developed which should correct this difficulty and make possible the completion of the project. The recent success of the Swiss Chemists in isolating and elucidating the structure of a new psychochemical from a fungus indicates the feasibility and the necessity of continuing work of this type.
- 3. The vill serve as cutout for transfer of funds to the investigator. The estimated cost of the work is \$9,867.00. To this must be added the \$\frac{1}{2}\$ service charge to the cutout, thus the total cost for one year vill not exceed \$10,261.68.
- 4. Prof. has signed the Memorandum of Agreement whereby title C to permanent equipment is retained by the University in lieu of higher overhead charges and arrangements are made for accounting for funds disbursed under the grant.





Downgraded to: - BOHFIDENTIAL by authority of: 187475 date: June 1977 E2 IMPDET: CL BY 187475





DRAFT

- 5. It has been mutually agreed that documentation and accounting for travel expenses under the grant which are reimbursable by the University shall conform with the accepted practices of that institution.
- 6. Dr. holds a covert clearance under Project MKULTRA and C has agreed to comply with the terms of the Memorandum of Agreement.

TSS/Chemical Division

Attachment: Budget

APPROVED FOR OBLIGATION OF FUNDS:

Research Director

rel 30-1918.

Distribution: Orig. only

ragraded to: CANFIDENTIA authority of: 187475 :a: June 1977

BUDGET FOR 1959-60

Salaries, two pre-doctinestigator	toral fellowships, principal and part-time help	5,460.00
Supplies and equipment		2,000.00
Special chemicals and	materials	500,00
Special Analyses on re	esearch samples	300.00
Travel and communicat:	lons	400.00
Library Service		100.00
		8,760.00
Total for basis	of computing University overhead	7,260.00
15% Overhead		1,107.00
	Total	9,867.00

WARNING NOTICE
SENSITIVE INTELLIGENCE
SOURCES AND METHODS INVOLVED

UNIVERSITY,

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July 1, 1956, through Oct. 1, 1957 Acct 570 -- Final Report

Balance, July 1, 1956 (Per prior report)	•	\$1 730 74
Receipts: August 31, 1956, 4th quarter		1 325 00
January 31, 1957, 1st quarter		1 487 50
		1 487 30
March 18, 1957. 2nd quarter		1.487 50
June 24, 1957, 3rd quarter		1.701.39
Total to be accounted for		7 518 24
		•
Expenditure and charges:		
Total direct charges per prior report, 2/28/57	4 202 46	-lacin selection media
Salaries, 6 mos. @ 150.00	900 00	
Salaries, 6 mos. @ 150.00	30 00	* F - 2
Travel expense, Dr.	8 03 %	
Telephone and telegraph		Commence of the commence of th
Supplies and Miscellaneous	145 57	
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Total Direct Charges		• 14
Overhead, 10% of Direct Costs	528 €1	5 814 67
Overteed, 12% of Pirers Octo		
		/

* Check for \$1, 703, 57 to cover refund of unexpended balance for warded to

Unexpended Balance, Oct. 1, 1937



Mr.

2 November 1957

Dear Mr. Allendar

This is to acknowledge the receipt of the following checks;

Check #G 20251 drawn on the \$16,819,00.

Check #DM 43521 drawn on the

Your generous contributions are greatly appreciated. The funds will be utilized by our Board of Directors in furthering worthwhile research projects in the field of medical sciences,

Yours truly :



Executive Secretary - Treasurer



Request for renewal of support for the project:

Investigation of the seed of Rivea Corymbosa (oloiuqui).

Summary of work, November 1, 1955 - September 25, 1956:

Physical examination of the seed used in this work royeals that two "types" have been under investigation. Taxonomically all the seed have been called Rivea Corymbosa although one variety (the seed are the larger of the two varieties) originated in Mexico and one variety originated in Cuba. The literature on the subject of ololiuqui, as far as I can ascertain indicates that its use as a psychic drug has been restricted to Mexico. This data slone would indicate the probability that the Cubon wortedy lacks some physiologically softwe component which the isxican variety contains. Experimental work in this laboratory has been largely restricted to the Cular voriety (small seed since only a very small amount of the Mexican variety hes been available. The chemical work, although not designed to compare the composition of the two varieties, has indicated some difference in the two. Also physiological tests on humans are indicative of a difference in the two varieties. This work is much too including to be such more than speculation at this time.

in addition to the isolation of glucose and hydro-quinone as constituents of clolluqui as reported in the last progress report, we crystalline fractions have been isolated which seem bother to be alkaloid or glycoside. Due to the small quantity of seed available the amount of these crystalline fractions is extremely small and little more than qualitative tests have been made on them. Experimental techniques, especially in extraction and separation have been perfected which will be used to isolate pure components of the drug which, just today, has become avilable in sufficient quantity to make the investigation profitable.

Plans for future investigation:

Now that 50 pounds of the Cuban variety and 10 pounds of the Mexican variety are available, the following lines of

invostigation will be actively rursued.

1. Determine conclusively if there is a chemical difference in the two varieties of seed.

2. Obtain as many "pure" components from each variety, using previously perfected techniques, as is possible. 3. Submit for physiological testing each "rure"

component. 4, Subject each "pure" component to chemical examination to determine the type of compound, whether it is a known compound and its chemical composition if it is a new compound.

Proposed budget, November 1, 1956 - November 1, 1957.

Equipment (including larger scal extraction and separation equipm and special chemicals	ent)	0
Analyses and tests		0
Travel expenses	500.0	0
Salaries (one graduate assistant help and director's stipend)	1aboratory	0
Miscellaneous	100.0	0
	Total \$5950.0	0
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14 October 1957

MEMORANDUM FOR: CHIEF, FINANCE DIVISION

VIA

TSS/Budget Officer

SUBJECT

THE REAL PROPERTY.

MKULTRA Subproject 22, Invoice No. 7

Allotment 8-2502-10-001

1. Invoice #7 covering the above subproject is attached. Payment should be made as follows:

Cashier's check in the amount of \$16,819.00 drawn on

Cashier's check in the amount of \$672.76, drawn on

Both checks should be made payable to

- 2. The checks should be forwarded to Acting Chief, TSS/Chemical Division, through TSS/Budget Officer, no later than Friday, 18 October 1957.
- 3. This is a final invoice. A total of \$17,491.75 was obligated under this subproject during FY 58. However, since it is anticipated that additional funds will be obligated for this project, the files should not be closed.

Acting Chief TSS/Chemical Division

Attachmentst Invoice & Certifications

Distribution: Wrig & 2 - Addresses

1 - Compiroller



For services

\$17,491,76

CERTIFICATIONS

[1] It is hereby certified that this is Invoice No. 7 applying to MKULTEA Subproject 22, that performance has been satisfactory; that the services have been complished in accordance with mutual agreements, that a detailed agenda of the payments and receipts is en file in TSS/CD, that this bill is just and correct and that payment thereof has not yet been made.

Acting Chief, TSS/Chemical Division

Daile

(2) It is hereby certified that this invoice applies to MKULTRA Subproject 22, which was duly approved, and that the project to being carried out in accordance with the memorandum dated 13 April 1953, from the DCI to the DD/A, and the extension of this authority in subsequent memoranda.

Research Director

Date:

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Appacat absald be made as follows:

Cashier's check in the amount of \$16, 619,00 drawn on a

Cashier's check in the amount of \$672.76, drawn on #

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2. The checke should be forwarded to Acring Chief, TSS/Cheralcal Division, through TSS/Budget Officer, no later than Friday, 18 October 1957.

3. This is a final lavelce. A total of \$17,491.76 was chilicated under this subproject during FY 58. However, since it is selleighted that redditional funds will be obligated for this project, the files should not be closed.

> Acties Chief TSS/Chemical Division

Assessmentst Invoice & Cartifications

4. Distribution:

Orig & 2 - Addresses

1 Comptroller

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16 August 1957

MEMORIAN POR: COMPROLLER

Menserios : Finance Division

MUNICIT : Project MULTRA, Subproject 22 H 4

Under the authority grouted in the Essorandan dated

13 April 1953 from the DCI to the DD/A, and the extension of this
authority in subsequent personada, Subproject 22 has been approved,
and \$17,491.76 of the over-all project EXULTEA funds has been
collegated to cover the subproject's expenses and abould be charged
to Allotsent 8-2502-10-00/

F CREPT THAT FINES ARE AVAILABLES
DESIGNED TEXT VICTOR FOR 2502-70-001

Acting Chief TSS/Chemical Division

APPROVED FOR OFFICATION OF FUNDS,

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S. A. S.

Distribution: Orig & 2 - Addresses

- 1 TSS/CC
- 1 TSS/FASB
- 2 TSS/CD

16 August 1957

MEMORANDUM FOR: The Record

SUBJECT

Project MKULTRA, Subproject 22

1. The purpose of this subproject is to provide funds to continue the work of Prof. on the isolation of psychogenic compounds from natural products. Prof. has been working on the seeds of Rivea corymboes and has been able to isolate a number of materials of potential interest in this field.

2. With the advent of feasible laboratory methods for testing psychogenic types of materials, Prof. Peels that he will be able to characterize the previously isolated materials during the coming year as outlined in the attached proposal and also fractionate fhynchosia phaseoloides for its active principle during the same period.

3. Frof. was previously located at University at He is now located at University as head of the department of Chemistry. This change in position will not in any way interfere with the Agency sponsored work, in fact Frof. Will have access to more and better equipment and personnel for his research.

4. The funds to the investigator. The estimated cost of the work for a period of one year beginning 1 September 1957 is \$16,819.00. To this must be added the 4% service charge to the cutout, thus the total cost for one year will not exceed \$17,491.76.

5. Frof. has signed the Memorandum of Agreement whereby title to permanent equipment is retained by the University in lieu of higher overhead charges and arrangements are made for accounting for funds disbursed under the grant.

6. It has been mutually agreed that documentation and accounting for travel expenses under the grant which are reimbursable by the University shall conform with the accepted practices of that institution.

7. Dr. holds a covert clearance under Project MKULTRA and

Dorngra d a: ffirmulifild by cothority of 187475 date: June E2 IMPDET; CL BY 187475 Royngraded to: ESHFERITAL by sutherity of: 187475 date: June 1977



E2 IMPDET: CL BY 187475

has agreed to comply with the terms of the Memorandum of Agreement.



Attachment: Proposal

APPROVED FOR OBLICATION OF FUNDS:



26 Aug- 1959.

Distribution: Original only

Downgraded to: 60MFDENTIAL by authority of: 187475 cate: June 1977 E2 IMPDET; CL BY 187475



PROPOSED RESEARCH PROGRAM

CHEMICAL INVESTIGATION OF THE SEED OF RIVEA

Work completed or in progress:

AND THE THE PARTY CONTROLS

It has been ascertained that there are at least two types of seed from the plant identified as filed Corymbess. One is found in Mexico the other in Tuber Their apparent composition and physiological section on organisms differs.

From both seed, glucose and hydroquinone have been isolated and identified. One additional compound has been obtained in crystalline form, apparently pure. This compound is being studied, the bulk of the drug seems to be a glycosidic mixture. This mixture has, to date, been subjected to numerous methods and techniques designed to separate the component parts. None has proved successful. The mixture appears, on the basis of many tests, to contain a small amount of alkaloid. It is not known whether the alkaloid is an integral part of the glycoside or not.

Physiological teats using animals and humans have been inconclusive and confusing. Enough positive results have been obtained, however, to point out the need for more carefully designed and controlled tests.

Proposed works

It is proposed to:

- 1. Complete identification of the unknown crystalline compound.
- 2. Perform physiological tests using this compound.
- Practionate the glyc.sid! mixture. Countercurrent extraction which has not been used to date will be tried.
- 4. Identify and prove structure of components of the mixture.
- 5. Perform physiological tests using the components of the glycosidic mixture.

WARNING NOTICE

Proposal page 2.

250

Budgets

Salaries, two me-doctoral fellowships, principal investigator and part time

help. \$4500

Equipment and Supplies. 9575 Travel connected with research. 300

Analyses, special chemical, special literature, etc.

\$14,625

15% Overhoad 2,194

Requested in grant \$16,819

Signed
Principal Investigator

WARNING NOTICE

SENSITIVE INTELLIGENCE
SOURCES AND METHODS INVOLVED

ANGE ANGE RECEIPT Receipt is hereby acknowledged of the following two checks: Treasurer's check No. T63248, dated June 14, 1957, drawn of \$3,968.67, payable to the Cashier's check No. DM 41928, dated June 12, 1957, drawn in the amount E

RECEIPT

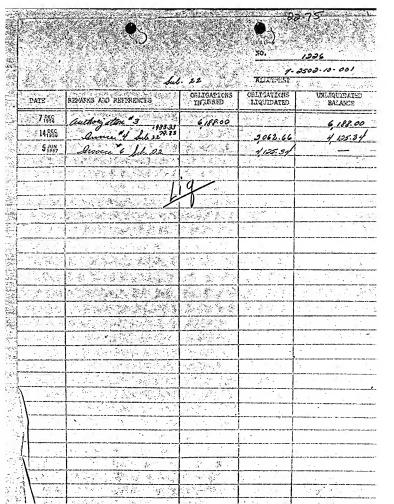
Receipt is hereby acknowledged of the following two checks:

Treasurer's check No. T63248, dated June 14, 1957, drawn on the fin the amount of \$3,956.57, payable to the

Cashler's check No: DM 41928, dated June 12, 1957, drawn on in the amount of \$158.57, payable to the

Date:

Sent to Mr. June 24, 1957



B

March 20, 1957

Dear Dr.

Enclosed please find in duplicate our statement of funds on Alkaloids of the Drug known as "Fiule" for the period from July 1, 1956 through February 28, 1957. The balance shown thereon is \$1,406.82. We thank you for your interest in our projects.

Yours very truly,
UNIVERSITY
Auditor

CC

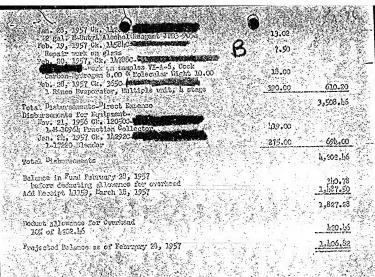
Assistant Program Director
Chemistry Dept. University

C



JULY 1956 THROUGH PRESTURRY 1957

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I have examined and approved the submitted expenditures

SIDNEY GOTTLIEB
Chief
TSS/Chomical Di

TSS/Chemical Division

Date:

RECEIPT

Receipt is hereby acknowledged of the following two checks:

Cashier's check No. A106633, drawn on the dated 21 December 1956, in the

Treasurer's check No. 147713, drawn on the drawn on the drawn, dated 19 December 1956, in the amount of \$79.33.

Both checks are payable to the Inc.

Date

-

13 December 1936

MEMORANDUM FOR: CHIEF, FINANCE DIVISION

10

小便30分数34分数50分数5

VIA:

TSS/Budget Officer

SUBJECT:

MKULTRA Subproject 22, Invoice 4
Allotment 7-2502-10-001

1. Invoice No. 4 is attached covering the above subproject.
Payment should be made as follows:

Cashier's check in the amount of \$1,933.33, drawn on a cashier's check in the amount of \$79.33, drawn on

Both checks should be made payable to the

2. The checks should be forwarded to Chief, 155/Chemical Division, through TS5/Budget Officer, no later than Monday, 31 December 1958. Other invoices will follow.

SIDNEY GOTTLIEB
Chief
TSS/Chemical Division

CHARGE TO ALL SE WAT No. 11-2522-10-001

Attachments:

Distribution:
Orig & 2 - Addressee

1 - Comptroller

7 TSS/FASB 2 - TSS/CD

(13 Dec 1956)

C. Tana

RECEIVED. 28.050

CHECK ZAZZON THE AMOUNT OF BALL

CHECK FLOOGSIN THE AMOUNT OF THE

A

5: 160

INVOICE

For services

\$2,062,66



CERTIFICATIONS

(1) It is hereby certified that this is Invoice Applying to MKULTRA Subproject 22, that performance is satisfactory, that the services are being accomplished in accordance with mutual agreements, that a detailed agenda of the payments and receipts is on file in TSS/CD, that this bill is just and correct and that payment thereof has not yet been made.

Chief, TSS/Chemical Division

Date:

(2) It is hereby certified that this invoice applies to MKULTRA Subproject 22, which was duly approved, and that the project is being carried out in accordance with the memorandum dated 13 April 1953, from the DCI to the DD/A, and the extension of this authority in subsequent memoranda.

Research Director

nata.

Carling



MEMORANDUM FOR: COMPTROLLER

ATTENTION:

Finance Division 10 m

player the bid one obtained by the

MKULTRA Subproject 22, SUBJECT Additional Authorization No. 3

1. Vader the authority granted in the memorandum dated 13 April 1953 from the DCI to the DD/A and the extension of this authority in subsequent memoranda, Subproject 22 was previously approved. Under the same authority an additional sum of \$6, 188,00 has been authorized to cover the subproject's expenses.

2. This expenditure should be charged against Allotment 7-2502-10-001.

> SIDNEY GOTTLIEB Chief TSS/Chemical Division

> > I CERTIFY THAT TUNOS ARE AVAILABLE

AUTHORIZING CATION

APPROVED FOR OBLIGATION OF FUNDS:

Research Director

Dates

Distributions Orig & 2 - Addressee

> 1 - TSS/OC 1 - TSS/FASB 1 - TSS/SRB

> > 2 9 TSS/CD

TSS/CD: (5 December 1956) DEC 10705183

Downgraded to: ###75##### by anthority cf: 187475 cate: June 1977

ES IMPOST; CL BY 187475

DRAFT

5 December 1956

MEMORANDUM FOR: THE RECORD

SUBJECT:

Project MKULTRA, Subproject 22

- The purpose of this project is to provide funds to carry out the isolation and characterization of the intoxicating substances present in certain varieties of Rivea corymbosa.
- 2. Dr. . University has conducted studies on this material which have lead to the development of methods which can now be applied to large samples of seed, thereby allowing the production of sufficient quantities of the active materials for definitive biological testing and characterization. Dr. . has submitted the attached proposal to carry out this work as directed by TSS/CD.
- serve as cutout for transfer of funds to the investigator. The estimated cost of the work is \$5,950,00 for one year. To this must be added a four percent service charge for the amounting to \$238.00. Therefore, the total cost of this investigation for one year will not exceed \$6,188.00.
- 4. In accordance with the Memorandum of Understanding with Dr. the University shall retain title to any permanent equipment in lieu of higher overhead rates.
- 5. The has made arrangements for the return of unexpended monies received under a grant from the Fund and also has requested that the University submit to it a summary accounting for all monies received therefrom.
- 6. It has been mutually agreed that documentation and accounting for travel expenses under the grant which are reimbursable by the University shall conform with the accepted practices of that institution.

Downgraded to: COMPRESSIBLE by authority of: 187475 date: June 1977

E2 IMPDET; CL BY 187475

Downanded to safeligentia by authority of: 187475 date: June 1977

E2 IMPDET: CL BY 187475

7. Dr holds a covert clearance under Project MKULTRA and has agreed to comply with the terms of the Memorandum of Agreement.

Chief, Branch II

TSS/Chemical Division

Approved:

Proposal APPROVED FOR OBLIGATION

OF FUNDS:

Sidney Gottlieo Chief

TSS/Chemical Division

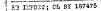
Research Director

Date: 7 1953

Attachment:

Distribution: Original only

Downgraded to + 60% 10th link by authority of: 187475 date: June 1977



Request for enewal of support for the oject:

Investigation of the seed of Rivea Corymbosa(oloiuqui).

Summary of work, November 1, 1955 - September 25, 1956:

Physical examination of the seed used in this work reveals that two "types" have been under investigation. Taxonomically all the seed have been called Rivea Corymbosa although one variety (the seed are the larger of the two varieties) originated in Mexico and one variety originated in Cuba. The literature on the subject of ololiugui, as far as I can ascertain indicates that its use as a psychic drug has been restricted to Mexico. This data slone would indicate the probability that the Cuban variet lacks some physiologically active component which the Mexican variety contains. Experimental work in this laboratory has been largely restricted to the Cuban variety (small seed since only a very small amount of the Mexican variety has been available. The chemical work, although not designed to compare the composition of the two varieties, has indicated some difference in the two. Also physiological tests on humans are indicative of a difference in the two varieties. This work is much too inconclusive to be much more than spoculation at this time.

In addition to the isolation of glucose and hydroquinone as constituents of ololiquid as reported in the
last progress report, two crystalline fractions have been
isolated which seem neither to be alkaloid or glycoside.
Due to the small quantity of seed available the amount
of these crystalline fractions is extremely small and
little more then qualitative tests have been made on them.
Experimental techniques, especially in extraction and
separation, have been perfected which will be used to
isolate pure components of the drug which, just today,
has become available in sufficient quantity to make the
investigation profitable.

Plans for future investigation:

Now that 50 pounds of the Cuban variety and 10 pounds of the Mexican variety are available, the following lines of investigation will be actively pursued.

- 1. Determine conclusively if there is a chemical difference in the two varieties of seed.
- Obtain as many "pure" components from each variety, using previously perfected techniques, as is possible.
- Submit for physiological testing each "pure" component.
- 4. Subject each "pure" component to chemical examination to determine the type of compound, whether it is a known compound and its chemical composition if it is a new compound.

WARNING NOTICE

Proposed budget, November 1, 1956 - November 1, 1957.

Equipment (including larger scale extraction and separation equipment) and special chemicals	\$1000.00
Analyses and tests	350.00
Travel expenses	500.00
Salaries (one graduate assistant, labora help and director's stipend)	tory 4000.00
Miscellaneous	100.00
Total	\$5950.00



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	3-1-1954 5-1-1955	4-1-1956	
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Apparatus, Supplies			
and Expense	979 72 445 17	68 15	
Equipment	12 325 JU -	87 50	
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Balance in Fund:			
June 30, 1956 (for 2 c	quarters)		405 74
May 23, 1956 Receipt	A 30002 - for 3rd quarter-		1 325 00
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SIDNEY COTTLIEB Chief TSS/Chemical Division

JUN 17 1956

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. Harch Through June	Graduata Craduata
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37003-	
May 31 JV 2796	Workmen's Insurance 66 1 005 66
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Apparatus, Supplies			(a) (a)	
and Expense	979 72	US 17	46 85	
Equipment	2 325 00		37 50	
Total Direct Expenditures	6 174 76	1 704 17	234 35	
Overhead Allowance - 10%	617 47	170 li2	23 143	
Total Expenditures	- 6 792 23	1. 874 59	257 78	8 924 60
	7 8 3 3 3			
Balance in Fund: March 31, 1956	9	358 18		
May 22 T056		-		1 1.25 10

Supplemental Receipt No. A 30002-5/23/56

Adjusted Balance

I have examined and approved the squartted expend. uses.

SIDNEY GOTT/ AD
'Chief(
TSS/Chemical Division

Date: JUN \$1956 JUN 1 1956 9961 1 NAC ANGIE PILE

Receipt is hereby acknowledged of the following two checks:

Receipt

Cashier's Check No. DM 35758, drawn on the

in the amout of \$3,533.34, payable to the

Cashier's Check No. 302611, drawn on th dated April 26, 1956, in the amount \$141,34, payable to the

8 may 1956



16 April 1936

MEMORANDUM FOR. CHIEF, FINANCE DIVISION

VIA: 785/Budget Officer

BUBLIFFA Subproject 22, Invoice X

1. Invoice 2 for the above subproject is attached. Payment should be made as follows:

Cashier's shock in the amount of \$3,533.34 drawn on

Both checks should be made payable to the

2. The above checks should be forwarded to Chief, TSS/Chemical Division, through TSS/Budget Officer, no later than 27 April 1956.

3. This is a final invoice. A total of \$5,512.00 was obligated under this subproject during FI 55. However, since it is anticipated that additional funds will be obligated for this project, the files should not be closed.

SIDNE COTLLES

Chief

TES Openical Piriston

CHECK# 224/IN THE AMOUNT OF \$244

RECEIVES: 444

CHECK# MISTIN THE AMOUNT

Invoice & Certifications
Distributions

Attachmentat

Orig & 2 - Addressee 1 - Comptroller

86-6004 z

CERTIFIED FOR PAYMENT OR CREDIT

RECEIVED 4 MAY

AUTHORIZED CERTIFYING OFFICER

MONTHARDER PORT CHIEF, PINANCE DIVISION

VIA:

183/Bodget Officer

SUBJECT

MULTIA Subproject 22, Invoice 2

I. Invoice 2 for the above subproject is attached. Tayment should be made as follows:

Cashler's check in the amount of \$3,533.34 drawn on F

Both checks chould be made payable to the formers

E

2. The above checks should be forwarded to Chief, 738/Checkel Myriaton, through 738/Danget Officer, no later than 27 April 1956.

3. This is a final invoice. I total of \$5,512.00 was obligated under this subproject during FY 56. Eccepter, aluce it is anticipated that additional funds will be obligated for this project, the files should not be closed.

chieks year

SIDNET COTTLIES

Chief
TSS/Chemical Division

CHARGE TO ALLOTMENT No. 6-3502-10-001

I CERTIFY THAT PUNDS ARE AVAILABLE &

AUTHORIZING OFFICER

Attachmento: Invoice & Certifications

Distributions
Orig & 2 - Addressee
1 - Comptroller

2 - TSS/FASB 2 - TSS/ED

OUT

TSS/CD (16 April 1956)

APR 18 9 39 AN '56

O DATOMIN/TES

70 **Albert** 1

INVOICE

For services

\$3,674.68

CERTIFICATIONS

(1) It is hereby certified that this is Invoice 4 applying to MUMIRR Subproject 22, that performance is satisfactory, that the services are being accomplished in accordance with mutual agreezents, that a detailed agenda of the payments and receipts is on file in ISS/CD, that this bill is just and correct and that payment thereof has not yet been made.

Chief, TSS/Chemical Division

Dates

(2). It is hereby certified that this invoice applies to MULTRA Subproject 22, which was duly approved, and that the project is being carried out in accordance with the memorandum dated 13 April 1953, from the DOI to the DD/A, and the extension of this authority in subsequent memoranda.

Research Director

Dalet

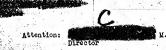
and the state of the

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MSUB PROS 27

SUGINFOS OFFICE





Déar Dr.

We have your letter of March 29, 1956 relative to your research grant made for the investigations of our Dr. It is indeed a privilege to serve you and your profession in this connection, and our omission of acknowledgments and statements are due to pressure of work rather than to lack of interest or gratitude in this and other projects.

We have prepared a set of statements covering Dr. Reperation of your project and are enclosing three copies. These consist of a summary of the entire period from March 1, 1954, through March 1, 1956, supported by two detailed statements covering the periods March 1, 1954, to April 30, 1955, and May 1, 1955, to March 31, 1956.

These statements show receipt from you of \$7,700.00 on the grant to November 1, 1955 and \$1,325.00 on the second grant (\$5,300.00) to October 31, 1956. Should you desire a restatement of the operations to coincide with the grant terminations, we shall be happy to make them up accordingly.

Yours very truly,

Vice President

By

Auditor

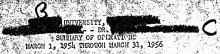
cc;

Dr.

C

WARNING NOTICE

SENSITIVE INTELLIGENCE
SOURCES AND METHODS INVOLVED



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Apparatus, Supplies and Expense	979 72	LLS 17	1 424 89
Equipment	2 325 00		2 325 00
Total Direct Expenditures	6 174 76	1 704 17	
Overhead Allowance - 10%	617 47	170 42	787 89
Total Expenditures	6 792 23	1 874 59	8 666 82
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SIDNEY CONTLIER
Chief
TSS/Chemical Division

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Spectrophotometer, Beckman #9500 7 175 00		- 37
Less borne by Chemistry Dept. (3) 5 150 00	2 325 00	4 41
		. 2
Total Expenditures	6 174 75	
	4	
Overhead Allowenco - 105	527 117	6 722 23

Balance Available in Fund at April 30, 1955

I have examined and approved the continuous and approved the continuous architectures.

SIDNEY GOTTLIEB
Chief
Chief
Division

MAY 1, 1955 THROUGH	1 EARLOR 31, 1930		
Beginning Balance May 1, 1955		907 77	
Receipts:			
Nov. 7, 1955 Receipt 23881		1 325 00	2 232 77
Expenditures:		AN ALL	1.3
Salaries- July 1955 Student Help	27 00		
August 1955	19 75	***	
November 1955"	12 25		A STATE OF
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Jan. 1956 Ck 27750 -	17		
Scientific - L Indicator spray bottle	12 50	a A	- F-2
Supplies Feb. 18, 1956 Ck 2883C - 1000	4 95	approved Corrier Med omical Di	
Ol Cuble-seem Cobes for	15 12	Pproved SOTTLIE	- 35-3
Extraction Assembly	29 24	appr COT Chief	T-15-0
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Feb. 23, 1956 Ck 3191C - Feb. 23, 1956 Ck 3191C	D .	S/Ch	1956
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1956 Journal of Pharmacology			- 1
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170 42

Overhead Allowance - 10% Balance available in Fund, March 31, 1956

Total Expenditures

Q: 12387 Q: FILE SUB 22

MEMORANDUM OF AGREEMENT

The purpose of this memorandum of agreement is to set forth the mutual administrative responsibilities of the principal research investigator and the sponsor. Therefore, it is mutually agreed that:

A. The principal investigator shall submit to the sponsor, at six month intervals, an informal statement of expenditures of monies advanced for research activities. It is requested that the statement be submitted in essentially the following form:

Personal Compensation (Salaries, Subject Fees) Equipment Supplies and Services Contingencies Overhead

- B. It is understood that any travel expenses incurred in the furtherance of the research program will be accounted to the University in a manner consistent with its established practices and policies.
- C. The principal investigator shall submit to the sponsor semi-annual reports on the technical progress of the research covered by these funds.
- D. Title to any permanent equipment shall be retained by the University in lieu of higher overhead rates.

Date: Feb. 14, 1956

I hereby acknowledge receipt of the following: Treasurer's Check #T51699 drawn on the in the amount of \$70.66. Official Check #0 3951 drawn on payable to in the amount of \$1,766.66.

12 Catober 1955

RESERVED FOR CHIEF, PIRABOR DIVISION

1 TSS/Budget Officer AIA

MINISTA Subproject 22, Invoice At 3 SUBJECT? Allotment 6-2502-10-001

1. Invoice & is attached covering the above subproject. Other invoices will follow later. Payment should be made as follows

to cachier's checks, payable to the one check in the assumt of and the second 1,766.66, drasm ores check for \$70.66, drewn on

2. Both checks should be forwarded to Chief, ESS/Chemical Division, through TSS/Budget Officer, no later than 25 October 1955+

> BIDNEY COTTLIEB See Cast TES/Chemical Division

Attachmenter Invoice & Certifications

CERTIFY THAT RUNDS ARE AVAILABLE OSLIGATION ATTERING " 385" CHATCH IC ALLOTHING No. 6-2502-16:001

Distribution:

Orig & 2 - Mdresson 1 - Comptroller HODIZING CHEICER

1 - TSS/FASB

CHECK TOGETH THE AMOUNT DE \$20.66 2 - TSS/CD RECEIVED 1 24.1855

185/CD: (11 October 1955)

CHECK 30 IN THE AMOUNT OF \$ 1766, 66

RECEIVED. . Xx.1150



26 September 1955

MENTRARDUM FOR COMPTROLLIR

I Finance Division ATTESTICA

MIULINA Subproject 22, Additional Authorisation #2 SUBJECT "

Under the authority granted in the mesorandus dated 13 April 1953 from the BOI to the DD/A and the extension of this authority in subsequent memorands, Subproject 22 was previously approved. Under the same authority an additional mum of \$5,512,00 bes been authorized to cover the subproject's expenses (thereby bringing to a total of \$5,512.00 funds obligated during FY 56) to be charged to Allotment 6-2502-10-001.

> SIDREY GOTTLIES Chief 739/Chemical Division

APPROVED FOR CALICATION OF PURDS:

Research Director

Dates

Distributions Orig & 2 - Addresses

1 - TSS/00

1 - TSS/FASB 1 - TSS/SRB

2 - TSS/CD

TSS/CD (26 September 1955)



等等。

INVOICE

Por services

\$1,837.32 L

CERTIFICATIONS

(1) It is hereby certified that this is Invoice #3 spplying to Subproject 22 of MULIFIA, that performance is satisfactory, that the services are being accomplished in accordance with mitual screenints, that a datalled sgenda of the payments and receipts is en file in TSS/CD, that this bill is just and correct and that payment thereof has not yet been reads.

Chief, TSS/Chemical Division

Date:

(2) To is beroby certified that this invoice applies to Subproject 22 of MANIATA which was duly approved, and that the project is being carried out in accordance with the memoradum dated 13 April 1953 from the DDI to the DDIA; and the extension of this authority in subsequent memoranda.

Research Director

Date:

Downgraded to: COMPREMENT

Dy authority of: 187475
cate: June 1977

E2 IMPDET; CL BY 187475

RAFT/

MEMORANDUM FOR: THE RECORD

SUBJECT : MKULARA Subproject 22

1. Subproject 22 is a continuation of Subproject 1, which had as its scope preliminary work on the isolation and characterization of the alkaloids of Impones sidefolia Choisy (Rives corym bosa) in order to determine their activities as agents affecting the central nervous system.

1 October 1955

- 2. The results of the preliminary study are such that a full program of research on this material is desirable. However, further investigation is required to determine the best technique to be used in the purification of certain glycosides. Dr. who conducted the preliminary work, has submitted the attached proposal to carry out this work as outlined by TSS/CD.
- 3. The
 as cutout for transfer of funds to the investigator. The estimated
 cost of the work according to the proposal is \$5,300.00 for one year.
 To this must be added four percent service charge for the
 amounting to \$212.00. Therefore, the total cost of this investigation for one year will not exceed \$5,512.00.
- 4. In accordance with the Memorandum of Understanding with Dr the University shall retain title to any permanent equipment in lieu of higher overhead rates.
- has made arrangements for the return of an unexpended monies to the agency upon completion of the program. This agreement is maintained in the records of the Fund.
- 6. Drama has agreed to comply with the attached Memorandum of Understanding. He has been granted a TOP SECRET Agency clearance and is fully capable of protecting the Government's interest in this project.

APPROVED:

Research Director

Date: 10 4 55

Distribution: Original Only i Reitte da

Dorngraded to standard by authority of: 187475 dato: June 1977

(26 September 1955) E2 IMPDET; CL BY 187475

TSS/CD: (26 September 1955)

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26 September 1955

MOCRASOUM FOR COMPTROLLIR

F Finance Division

MINITER Subproject 22, Additional Authorisation SUBJECT

Under the authority granted in the memorandum dated 13 April 1953 from the DCI to the DD/A and the extension of this authority in subsequent memorands, Subproject 22 was previously approved. Under the same authority an additional gum of 85,512,00 has been authorised to cover the subproject's expenses (thereby bringing to a total of \$5,512.00 funds obligated during FY 56) to be charged to Allotront 6-2502-10-001.

SILITIOD VINCIES Chief T35/Chemical Division

APPROVED FOR COLICATION OF PURDS:

CERTIFY THAT FLIDS ARE AVAILABLE Storewall 585

- AUTHORIZING OFFICER

Research Director

Dates

Distributions Orig & 2 - Addresser

1 - TSS/OC 1 - TSS/FASB 1 - TSS/SRB 2 - TSS/CD

188/CD to (26 September 1955)

48

26 September 1955

HORRANDOM FOR COMPTROLLIN

ATTESTICS | Finance Division

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SUBJECT | MIULTRA Subproject 22, Additional Authorization

Under the authority granted in the mesorander dated 13 april 1953 from the DCI to the DD/A and the extension of this authority in subsequent mesorands, Subproject 22 was proviously approved. Under the same authority an additional sum of \$5,512.00 has been authorised to cover the subproject's expenses (thereby bringing to a total of \$5,512.00 funds obligated drings Ff 55) to be charged to Allotsent 6-2502-10-001.

SIDELY CONTLIES Chief TSS/(healcol Division

APPROVED FOR COLICATION OF POROSI

A CONTRACTOR

CERTIFY THAT PURIDS ARE AVAILABLE CONSTRUCTION TO RETURN SOME STATE OF THE STATE OF

Research Director

Dates

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188/CD 100 (26 September 1955)

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rngraded to: 1004700111141. authority of: 187475. ite: June 1977



72-94

3.

September 10, 1955

Attn. - Dr. Sieney Gottlieb

May 2 constituted a brief My letter to the progress report of my work on the project dealing with the drug "Piule". Since that time, arrangements have been made with head of the Department of at to carry out physiological C Dr.4 the tests on the purified glycoside obtained from "Piule". These tests will take a considerable portion of the glycoside obtained from the "Piule" on hand, however, Dr. of your C organization has indicated that he will make more of the drug available to me. When I obtain this new supply of the drug plan to extract and purify a sufficiently large quantity of the glycoside so that when it is subjected to splitting, the aglycone which is obtained will constitute a fraction large enough to be tested in detail. To date the aglycone has been obtained in minute traces as a dark tar. The only tests which it has been possible to carry out on this material are those using alkaloidal reagents. These tests have indicated the presence of alkaloids. The glycoside gives indecisive results when tested for nitrogen using the sodium fusion technique. Quantitative micro Kjeldahl determinations indicate 0.70% nitrogen. Assuming the presence of one nitrogen in the molecule and assuming that the glycoside is pure, this percentage of nitrogen would indicate a molecular weight of 2x10°. Due to the insolubility of the glycoside in the solvents usually employed in the Rest method for molecular weight determinations, the molecular weight of the glycoside has not been determined.

The glycoside has been fractionally extracted using various polar solvents. The fractions obtained from these extractions all have essentially the same ultraviolet spectra. This would indicate a fair degree of purity. The melting point is not sharp. As is characteristic of amorphous conjounds it softens over a wide range; melting between 120 and 130°C.

Further attempts will be made to fractionate this glycoside fraction by countercurrent extraction and also by altering the chromatographic techniques employed to date.

Microenzymatic methods will be employed to determine if the glycosidic linkage is alpha or beta.







page 2

Additional paper chromatographic tests will be employed to determine whether or not the glyco portion of the glycoside is glucose or whether some other sugar is present.

Attempts will be made to isolate sufficiently large quantities of the aglycome in crystalline form so that in addition to the chemical tests, physiological tests may be carried out on it and the results compared with those obtained on the glycoside.

Qualitative and quantitative functional group determinations will be made on the aglycone if it can be obtained in pure form.

In order that this project may be carried on more expeditiously I plan to hire one graduate student who can assist me in the work.

(including Extracto-meti

Proposed budget for one year

Aquipment	giant blendo	r, fraction te.)	\$ 800.00
Special c	hemicals	mmm.	150.00
Analyses	and tests		300.00
Travel ex	opense		250.00
Laborator	y help and mis	cellaneous	200.00
One gradu	ate assistant	for one year	1800.00
Stipend f	or director		1600.00
		Total	\$5100.00

Downgrand to Communate by authority of 1874784. date. June 1977

A-100

Associate Professor

MEMORANDUM FOR THE RECORD

SURJECT: Contact - Dr.

- On this day the writer spent two hours with Dr. discussing various aspects of his project on the isolation of the active principle of Rives corymbosa.
- 2. The two bags of additional seed were given to Dr. He indicated that they would hold him for awhile, but that he could use at least five pounds more in the coming year.
- 3. The question of accounting for the grant was briefly discussed and Dr grassed along to us examples of the three-month accountings which he routinely gets from the university. They are attached to the proposal discussed below.
- 4. Dr. submitted his proposal for the next year, which was discussed in detail with him. The minor addition was suggested to be added to the category of "equipment". He has shout \$470 left in his present grant, as of today. He indicated that, if November 1, 1955 is the starting date for the new grant, and if he receives the first portion of the money promptly by that date, things will go smoothly.
- 5. Dr. raised some problems that he has in connection with having a graduate student. He wondered if there were security considerations in his having such an assistant. The writer explained that there were none; that he should hire a person for the job strictly on the basis of his qualifications and we personal acceptability to
- 6. Dramala also discurse the possibility of another move in several years from now, and wondered what our attitude would be about this. He was advised not to worry about this until it became more imminent.

SIDNEY GOTTLIEB

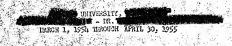
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TSS/Chemical Division

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l August 1955

MEMORANDUM FOR: THE RECORD

SUBJECT. Addendum to Subproject 22

- . 1. The purpose of this addendum is to set forth the mutual administrative responsibilities of the contractor and sponsor.
- 2. The above subproject represents the research program located at University, financed by MKULTRA, covering the period 28 January 1954 through 28 January 1956.
- 3. The Carry has requested the University to submit to them a summary accounting of monies received from the Fund. Also, they requested the return of any unexpended funds received under a grant from the Fund.
- 4. Title to any permanent equipment purchased by funds granted the University shall be retained by the University in lieu of higher overhead rates.
- 5. It was mutually agreed that documentation and accounting for travel expenses which are reimbursable by the University shall conform with the accepted practices of that Institution.
- 6. It was agreed that technical reports reflecting the progress of the research program shall be submitted at mutually acceptable intervals.

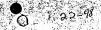
SIDNEY GOTTLIER Chief

TSS/Chemical Division

APPROVED:

Chief, Technical Services Staff

Distribution: Orig & 1 - TSS/CD



28 January 1955

MEMORANDIM FOR: THE RECORD

SUBJECT : Extension of Time for Project MKULTRA, Subproject 22

Since Subproject 22 has expired and there are still funds remaining in the project, Subproject 22 is hereby extended for one year from date of expiration.

APPROVED:

[Chief, TSS/Chemical Division]

Original Only

MEMORANDUM RECEIPT AUG 1 1 ENT'D SUBJECT: I hereby acknowledge receipt of the following: UNS. CHECK#41228 IN THE AMOUNT OF \$4.33.33 RECEIVED. AUG 1 2 1954 MEMORANDUM RECEIPT I hereby acknowledge receipt of the following: CHECK # 11201 THE AMOUNT OF 5.5733 RECEIVED.

Angust 1955

MENORANDUM FOR: CHIEF, FINANCE DIVISION

TSS/Buleat Officer

SHATECT:

Subproject 22. Project MOULTRA Invoice No. 2, Allotment 4-2502-10-001

1. Invoice No. 2 for Subproject 22 of Project MAULTRA is attached. This invoice is the final one to be submitted under Subproject 22 and when paid, constitutes complete payment of this project. It is requested that payment be made by two cashier's checks for \$205.33 and \$5,133.33 made out to the company of the The checks should be sent to Chief, TSS/CD through TSS/Duket Officer by 16 August 1954.

2. The two invoices covering this Subproject aggregate \$8008.00 and represent the total expenditure to be made under this Subproject. It is requested, therefore, that the files on this Subproject be closed.

> SIDNEY COPPLIED Chief Chemical Division, TSS

Attachments Invoice Eo. 2 Certifications

TSS/PASB - 1 ---

Comptroller - 1 153/00 - 2

Addressee - Orig. & 2 W/a

Distributions

OBLIGATION REFERENCE P. 00/108

I CERTIFY THAT FUTTO SET AVAILABLE:

CHARGE TO ALLOTMENT No. 4-3502-10-001

AUG 6 ENT'D

AUTHORIZING OFFICER

CHECK#81208 IN THE AMOUNT OF \$5,133.0 RECEIVED. AUG 1 2 1954



U. N. T.



(1) It is hereby certified that this is Invoice So. 2 applying to Subproject 22 of Project KUMERA, that technical performance by the quantity of the content of the content

SIDNEY GOTTLINB Chief. TSS/CD

(2) It is bereby certified that this invoice applies to Subproject 22 under Project MKULRAN which was duly approved and that the project has been carried out in occordance with the DDJF seconsandum to DDI dated 3 April 1973 and the DDI memorandum to DDJA dated 13 April 1973.

Date: AUG O 1934



CERTIFICATE

March 2, 1954

This is to certify that I have today received Cashier's check No. M138335 of the the company of \$102.67.

M.D.

March 2, 1954

This is to certify that I have today received Cashier's check No. M138334 of the



TO:

FEB 18 ENTO

OUTE

FEB 18 E

1 February 1954

CRIEF, PINANCE DIVISION MESSORANDUM FOR:

VIAL

TSS/Bulget Officer

SUBJECTS

Invoice No. 1, Subproject 22, Project MULTRA

Invoice No. 1 for Subproject 22, Project MKULTRA is attached. It is requested that payment be made by two cashier's

checks made out to the order of and the in the anounts of \$2,566.67 and \$102.67.

The checks should be sent to Codef, CD/783 through T33/Bulget Officer by 4 February 1954.

> SIDERY COPPLIES Chief Chemical Division, TSS

Attachmentes Invoice Certifications

Distributions Addresses - Orig. & 2 Comptroller - 1 Exec. Sec'y., Res. Bi. - 1 TSS/Budget - 1

TS3/Registry - 1

IN THE AMOUNT OF \$ 102:67 RECEIVED

IN THE AMOUNT OF \$3566

FEB 1 S ENTO

FEB 18 ENT'B



28 January 195

For Services \$2669.54

SECRET

Certifications

subproject 22 of Project MC	d that this is invoice No. 1 applying to unifonatory, that the work is being accom- the mutual agreement reached with
not yet been mais.	it and correct and that payment thereof has C
Dates	SIDER COLLUES
The State of The Land	Chief, CD/TS3"
22 under Project MULTIA vh is being carried cut in sec dated 3 April 1953, the DCI	ad that this invoice applies to subproject inch was duly approved and that the project contained with the DD/A dated 13 April 1993, the DD/A dated 19 June 1993.
	Men could
FEB 4 1954 Date:	A
的问题实验主义的	Besearch Director"
	ed that the scope of the program of subproject
22 of Project MAULITA has b	peen approved.
化多二氯基酚 大學	
FF3.4, 354	
Dates	1a A
	Exec. Sec'y., Res. Rd."
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SECRET

FEB 5 ENT?
AUTHORIZING OFFICER

MEMORANDUM FOR COMPTROLLER

ATTENTION: Finance Division

CURTOWN Project MULICIPAL Submissed 22

SUBJECT: Project MEULTRA, Subproject 22

Under the authority granted in the meaorandum dated 13 April 1953 from the DDI to the DDJA, and the further authority granted in the memorandum dated 17 April 1953 from the DDJA to the Comptroller on the subject, "DDJP-TSS Project MKULTRA," and the memorandum dated 19 June 1953, from the DDI to the DDJA extending the authority to cover Fiscal Year 1954, Subproject 22 has been approved, and \$8,003.00 of the over-all Project MKULTRA funds have been obligated to cover the subproject's expenses.

SIDNEY COTTLIEB
Chief
Chemical Division, TSS

PROGRAM APPROVED

APPROVED FOR OBLIGATION OF PUNDS:

Exec. Sec'y., Res. Di.	Research Director
ate:	· Date:
Service and the service of	
istribution:	
Addresses - Orig. & 2	
Exec. Sec'y., Res. 2d 1	
TSS/Bulget - 1	
TSS/Registry - 1	
TSS/CD - 2	

Downgraded to: CONFIDENTIA by authority of: 187475 data: June 1977 28 January E2 IMPDET; CL BY 187475 MEMORANDING FOR THE RECORD Project MKULTRA, Subproject 22 SUBJECT:

> Subproject 22 is a continuation of Subproject 1 which hed as its scope preliminary work on the isolation and characterization of the alkaloids of Impomea sidafolia Choisy (Rivea corym bosa) in order to determine their activities as agents effecting the central nervous system.

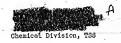
> The results of the preliminary study are such that a full program of research on this material is desirable. Dr.

proposal to carry out this work as outlined by CD/TS3.

who conducted the preliminary work, has submitted the attached

as cut-out for transfer of funds to the investigator. The estimated cost of the work according to the proposal is \$7,700.00 for one year. To this must be added 43 service charge for the ing to \$308.00. The total cost of this investigation for a period of one year, therefore, will not exceed \$8,008.00.

has been granted a Top Secret Agency clearance and C. is fully capable of protecting the Government's interest in this project.



APPROVED:



G ВХ 187475

Sec'y., Res. Pd. Exec. Date: Can 28 1554

PROGRAM APPROVED

AND RECOMMENDED:

Attachment: Proposal



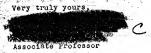


Dear Sir:

I am aware of the interest your Foundation has in supporting research related to physiologically active compounds. Recently I became interested in determining what is the active component(s) of the drug "Piule". We wrk together with the meager technical literature available on the subject convinces me that financial support will be necessary before I will be able to continue the investigation. I am, therefore, submitting to you a summary of the work completed on the problem to date, together with an estimate of the funds that will be needed to purchase equipment and supplies and to employ help.

University officials are aware of this request. If you see fit to support this research, I plan to employ one or two graduate students who will work part time on the problem while working toward the M.S. or Ph.D. degree.

My work in the field of plant alkaloids dates back to 1948. Most of this work was carried out at the University of When I moved to University in the fall of 1953, I found that no work in this field had been carried out here. As a result, very little of the necessary equipment is available. Departmental funds are available for some, but not all, of the necessary equipment and supplies. The funds requested for the first year of the investigation, therefore, include these.



WARNING NOTICE

Summary of Work on "Piule"

The seed of a trailing vine which grows in Mexico and Central America has been used by natives of those regions since Ancient times as a narcotic. Although the plant has been classified by tamonomists of the Smithsonian Institute as Impomoea sidasfolia Choisy, a plant of the Convolvulaceae family, its seeds, because of their physiological activity, have been considered as one of the "peyotes". The most common example of a "peyote" drug is the button from the cactus, Amandonium lewinia.

Until the work reported here, the only work carried out to determine the active constituents of these seeds was that by C. G. Santesson of the Medico-Surgical Institute in Stockholm and reported in the Archiv der Pharmozie 275, 532-537, (1937). His experiments, which were conducted on small quantities of seed, indicate that a water extract of the crushed seed contained a glyco-alkaloid which had narcotic effect on frogs, mice and rabbits before and after acidic hydrolysis. The presence of sugars was determined by means of the Fehlings test. The evidence for reporting alkaloids was precipitates with reagents such as phosphomelybdic and phosphotungstic acids.

In the present investigation, which was carried cut during a five week period at the

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repeat the work of Santesson and determine the best means of Finally a 100 g. extracting the active constituent(s). sample of the seed, crushed to pass a 15 mesh sieve, was extracted in a sonxlet with petroleum ether to remove oils. The de-ciled seed was maxcerated with distilled water and the mixture centrifuged to separate the marc. This marc apparently was devoid of alkaloid or glycosides extractable with various polar and non-polar organic solvents. The aqueous extract was freed from most protein material by the use of trichloroacetic acid. The deproteinated extract was neutralized by means of ion exchange resins. The effluent from the resin column was concentrated in vacuo resulting in the precipitation of more gummy material. The supernatant was clear, vescous, dark green and intensely It contained no free reducing sugars. Tests with alkaloidal reagents were inconclusive. Attempts to extract alkaloidal material from this solution using various solvents were unsuccessful. Emulsions interfered with the extraction in both neutral and basic solution. The aqueous solution was stirred with methanol, a procedure which removed most of the polysaccharides, which were present in large quantities, and decreased the viscosity of the aqueous solution. The resulting aqueous-alcoholic solution was concentrated to remove methanol. It gave positive tests with all common alkaloidal reagents and negative tests for reducing sugars.

WARNING NOTICE

A minute quantity of crystalline material formed in 是由此是有一个的主义的主义的 this aqueous solution after a day. This material has 1986年2月1日 - 1987年 - 19 not been identified. The remainder of the solution 数据。可能被自然解决可能。据1967年,1986年10年 was evaporated on a water bath, in a nitrogen atmosphere, 的"美国"的"基础"的"基础",第一次,并且 without obtaining additional crystalline material. The residue was taken up in water and more polysaccharides precipitated with the addition of methanol. Repeating **第一个部分的原理。但是是一个** this procedure eventually removed all of the poly-於自然關於自然,其為人 saccharides. From the supernatant, after removal of polysaccharides, no crystalline material was obtained. Tests on this solution indicated the presence of alkaloids and the absence of reducing sugars. This solution also was intensely bitter, a crude indication 来的。如果是一个一个一个一个一个一个一个一个一个 of the presence of the active principle(s) of "Piule". Contract the Contract of the C No test animals were available at the time for physiolog-The state of the s ical tests of various fractions. This solution was hydrolyzed with 2N H2SO4. A voluminous amount of precipitate resulted. The clear supernatant yielded excellent tests for alkaloids and reducing sugars.

paper chromatography was employed to confirm the

presence of reducing sugars. The polysaccharides were
hydrolyzed and the resulting solution, after neutralization, was subjected to paper chromatography. The
results are incomplete; however, glucose, mannose and
xylose appear to be the predominate monosaccharides present.
WARNING NOTICE

At this point work was suspended due to my change of positions.

Proposal

Future plans call for the following.

- The use of larger quantities of the seed. (Originally only a small quantity was available, now there is a large quantity available.)
- 2. Considerable work on the use of ion exchange resins in order that this technique can be used on aqueous extracts of piule without the possibility of losing some of the active principles.
- Work to be continued on the isolation of glycoalkaloid(s). There is some indication in this investigation that in addition to one or more glycoalkaloids there is also uncombined alkaloid.
- 4. Work to be continued on the identification of the sugars combined in glycoalkaloid moieties.
- 5. Test animals to be used to determine the presence of the active principle(s) in various fractions.
- 6. When the glycoalkaloid(s) or/and alkaloid(s) have been isolated work will be undertaken to determine their physiological activity on laboratory test animals, their physical and chemical properties including ultraviolet and infrared spectra.
- 7. If the alkaloid(s) cannot be identified as known alkaloid(s), work will be instituted to elucidate the structure.

It is estimated that this investigation will require from three to five years to complete.



Funds Needed for One Year

Equipment (includes special equipment such as Be	xlet .	
extractor, paper chromatography equip Kofler hot stage and small mill for grinding seed.)	E : -01	
Materials (chemicals, solvents)	300	
Travel and meetings	200	
	200	
Salary (senior investigator)l	600	
Salary (graduate assistant, 11 mo.)l	800	
Laboratory help	100	
	100	
Overhead to	700	· ·

otal	\$ 7000 plus
Dverhead	overi
Total	\$ 7.700.00

22-101

August 20, 1954

Dr.

C

Dear Dr.

This is to inform you that my former District number has been changed to the state of the state

Sincerely,

26 January 1954

HENORANDOM PORT COMPTROLLER

PROLLEGILV

Finance Division

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Project MINITRA, Subproject 22

bader the authority granted in the memorandum dated 13 April 1953 from the DOI to the DD/A, and the further authority granted in the memorandum dated 17 April 1953 from the DD/A to the Comptroller on the subject, "DD/P-ESS Project MRUMERA," and the memorandum dated 19 June 1952, from the DOI to the DD/A extending the authority to cover Fiscal Year 1954, Subproject 22 has been approved, and \$5,008.00 or the over-all Project MRUMERA funds have been obligated to cover the subproject's expenses.

PROCEAU APPROVED

H

Date

Distribution: Addresses - Orig. & 2
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SIDERY COPPLIED
Chief
Chemical Division, TSS
APPROVED FOR OBLIGATION

OF FUNDS:

Original Signed : A

Research Director

I CERTIFY THAT FOULS ARE AVAILABLE!

OBLIGATION 02642

CHARGE TO

PER MIT

- ORIZING OFFICER

) | 5⊴ √10!

SO 2-1266 14 September 1953

MEMORANDUM FOR: Chief, CD/TSS

SUBJECT



1. Reference is made to our memorandum dated 29 May 1953, requesting a covert security clearance to permit TSS to utilize the Subject's personal knowledge in connection with a highly sensitive research problem incident to Project MXULTRA. The Subject will have access to TOP SOURST Information.

- 2. In accordance with the provisions set forth in the Director's Memorandum of 14 February 1949, entitled "Security and Operational Clearences", a covert security clearence is granted for the covert use of the Subject as described in your request as set forth in Paragraph 1 above.
- 3, The Subject is not to represent himself as, nor is he to be represented as, an employee of CIA.
- 4. Your attention is called to the fact that a covert security clearance does not constitute complete complience with the provisions of CIA Regulation in the three completes on should desire at a later date to change the status or use of this individual, a request for clearance to cover any proposed change should be submitted to this office.
- This clearance becomes invalid in the event the Subject's services are not utilized within 60 days of the date of this memorandum.



/dlb (14 September 1953)

Distribution:
Addressee - Orig. (SGottldeb, William)
1880 - 2

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Security Information



17,476.76



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MEMORANDUM FOR: THE RECORD

Schedule of Grant Payments MKULTRA 22

November 1961 to November 1962

Due Nov 1, 1961 Tue Feb 1, 1961

Due May 1, 1961 Due Aug 1, 1961

\$3,852.00

3,852.00 3,853.00

TOTAL GRANT \$15,410.00

7 October 1959 22,

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MEMORANDUM FOR: THE RECORD

SUBJECT : Schedule of Grant Payments MKULIFFA 22

November 1959 to October 1960.

 Due
 Nov 1, 1959
 2891.75

 Due
 Feb 1, 1960
 2891.75

 Due
 May 1, 1960
 2891.75

 Due
 Aug 1, 1960
 2891.75

TOTAL GRANT

11,567.00

22.4

Project MKULTI. Subproject 22

Date Initiated: 28 January 1954

Date Expires: Continuing

Funds-current year: \$11,567.00

Purpose: Isolation and investigation of the active principals of certain botanicals of interest.

Status: Final fractions are being studied on the Rivea corymbosa separation, considerable progress has been made on the separation of the active constituents of Amanita muscaria, and a start has been made on the separation of Rhynchosia phaseoloides



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April 17, 1964

Total funds from grant Balance

-To:--

A,B, C, \$

principal investigator From:

Final financial accounting for renewal of research grant Re: entitled

November 1, 1962 - July 15, 1963 Period of grant:

For professional services rendered in research Travel expenses return by auto and plane Living expenses at Laboratory fee at Pota1 expenditures \$7705.

This is a correct accounting of funds received by me as grantee from

I have examined and approved the submitted expenditures.

chief

1,705.00 \$ 7,705.00 at the expenditurer listed hereon and heants were incurred for official pur-confidencial nature, that payment or for has not bean received, and that AMOUNT CREDIT VOUCHER NO. (Finance use only) • 71.80 AMOUNT this secounting is true and correct. MONEY ORDER See attached certification TOTAL EXPENSES VOUCHER NO. 7-12 DESCRIPTION CHECK CLASS DISBURSEMENTS SIGNATURE OF PAYEE on any attachments poses of a confi TOTALS predit therefor TOTAL ACCOUNTED FOR X CK. 80. NO COST CAS H ALLOT. OF C S. CASH ON HAND END OF PERIOD SPACE BELOW FOR EXCLUSIVE USE OF FINANCE DIVISION SINES COTILIES, DC/DSD 31 October 1962 SIGNATURE OF APPROVING OFFICER SIGNATURE OF CERTIFYING OFFICER 4. REFUNDED HEREWITH 31 oct. CERTIFIED FOR PAYMENT OR CREDIT DATE ACCT. NO GENERAL LEGGER 54.57 PERIOD OF ACCOUNTING 3. VOUCHER 3 % 25 APPROVED å, Sub 22 15,410.00 25,410.00 11 Rovember 1961 CODE PETETRA ç 15 13-33 34-39 40-42 26-33 STATION EXPEN T/A NO. COOE COOE REVIEWED BY SUBMITTED BY OATE DATE FROM SIGNATURE OF AUTHORIZING OFFICER **DESCRIPTION** OBLIGATION REFERENCE NO. CHARGE ALLOTMENT NO. 32.33 PEULTRA Advance RECEIPTS CERTIFY FUNDS ARE AVAILABLE TOTAL TO ACCOUNT FOR DESCRIPTION - ALL OTHER ACCOUNTS 13-33 ACCOUNTING BY INDIVIDUAL Involce # 11 Follow Instructions on Keverse CASH ON HAND BEGINNING OF PERIOD DEFCRIPTION - ADVANCE ACCOUNTS 13.27 FOR ADYANCE T HOW DATE 8 282 CPARED BY 2. PECEIPT FORM 8.61 OATE ē,

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PREVIOUS TOITIONS.

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X2,8

May 1, 1963



Incorporated

B. C

Your check for \$2,575.00, representing the third quarterly payment for research work, was received today.

Thank you for taking care of this matter for us.

Very truly yours,

Assistant Research Administrator

12.8

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22

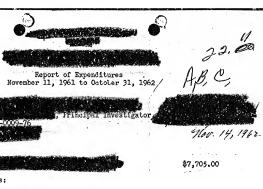
11,103.00

22 April 1963

32.0010 AB

Cordially

Dear allacked are two copies of accounting on the grant funds at the appears to be in order. If there are any questions just let me know.



Expenditures:

Grantor: Grantee: Fund:

Income:

BUSINESS OFFICE

Salaries and Wages	\$1,905.00
Travel	1,021,65
Equipment	2,252.99
Supplies	1,206.34
Other Expenses:	
Telegraph servic	e9.27
Telephone	169.06
Miscellaneous	87.06

Overhead @ .1376 of direct costs

1,053.63 7,705.00

Balance

-0-

I certify that the above statement of account is correct to the best of my knowledge.

Business Manager

I have examined and approved the submitted expenditures.

TSD/Biological Branch

22.12

6 August 1962 A,B, C

MEMORANDUM FOR THE RECORD

SUBJECT

Extension of Grant for

Authorization was given this date to

extending (

grant time until 1 August 1963.

Chief TSD/Biological Research

26 March 1962

12.13 AB, C

MEMORANDUM FOR THE RECORD

SUBJECT

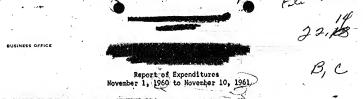
Support of Research on

- 1. This date discussed in detail the status of our research on the physiologically active principles of the mushroom with the principal investigator on this project, has made outstanding progress in his laboratories in the research has progressed to the point where it is important to engage in more detailed phases.
- 2. In discussing the projected research, said that he was unable to engage in certain critical phases due to lack of contact with certain types of apparatus. He was of the opinion that it was most important to bring into the research picture an outstanding research worker who was knowledgeable in the field of drugs natural products.
- 3. Following consultation with discussions were held between and myself. It was the consensus that all work could best be undertaken in the laboratories of was in complete agreement with this since it would permit him to devote full time to his research and, at the same time, obtain much needed information on researches first hand.
- pointed out, however, that he would be the stated that he had been in correspondence with and had received several cordial invitations to work in laboratories. Pointed out that his expenses would be in excess of \$10,000, owing to the fact that he would have his family to transport and take care of. He was advised that the grant could not undertake support to this extent, but that it would be possible to use about 1 of the existing grant to reimburse him for his professional services, transportation, and a nontion of his living expenses while in residence at the was informed that he, personally, would have to make his own arrangements about the additional funds required. Stated that this was quite agreeable to him and that he would take the necessary steps.

22.19

5. Arrangements were made with whereby of the grant would be withheld from and given directly in support of researches at in by Chief, TSD, and

Chief TSD/Biological Research



Grantors Principal Investigator Grantees Fund: 6795-76

10

Incomes

Expendituress

Salaries & Wages (Incl. Fellowships) \$3,850,00 1,107.10 Travel 1,150.65 Equipment 1,684,99 Supplies Publication and preparation of thesis 148.10

Other expenses: 8.01 130.25 Telephone Miscellaneous 9.85

146.11 Overhead @ 15% direct costs 1,213.05

Total Expenditures,

9,300,00

Balance

I certify that the above statement of account is correct to the best of my knowledge.

Business Manager

1/17/4

99. M

November 8, 1961

B,E,

Gentlemen:

We are pleased to be able to transmit to you the following funds:

Check No. 200 drawn on the 200 the 15, 410,00.

Check No. drawn on the the dated November 2, 1961, for \$616, 40.

These funds represent a contribution for the use of your directors in carrying out the very worthwhile research goals of your organization.

Yours truly,

Enclosures: (2)

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A,E,B

12 October 1961

MEMORANDUM FOR: CHIEF, FINANCE DIVISION

TSD/Budget Officer

SUBJECT

MULTRA, Subproject 22 Invoice #11 Allotment No

Invoice No. 11 in the amount of \$16,026.40 covering the above subproject is attached. Payment should be made as follows:

Cashier's check in the amount of \$15,410.00, drawn on

Cashier's check in the amount of \$616.40, drawn on a

Both checks should be made payable to

- The checks should be forwarded to Chief, TSD/Research Branch, through TSD/Budget Officer, no later than 3 November 1961.
- This is a final invoice. Errever, since it is anticipated that additional funds will be obligated for this project, the files should not be elesed.

THE RESERVE Chief TSD/Research Branch

Attachment: Invoice & Certifications

Distribution: Orig & 2 - Addressee CHECK RECEN ID.

IN THE AMOUNT OF \$ 1/6. 40

A.E.B

12 October 1961

MEMORANDOM FOR: CHIEF, FINANCE DIVISION

VIA

TSD/Budget Officer

SUBJECT

MOLIFRA, Subproject 22 Invoice \$11 Allotment No.

Invoice No. 11 in the assumt of \$16,026.40 covering the above subproject is attached. Payment should be made as follows:

Cashier's check in the enount of \$15,410.00, drawn on

Cashier's check in the amount of \$616.40, drawn on a

Both checks should be ande payable to

The checks should be forwarded to Chief, TSD/Research Bronch, through TSD/Budget Officer, no later than 3 November 1961.

3. This is a final invoice. However, since it is enticipated that additional funds will be obligated for this project, the files should not be closed.

> Chief TSD/Research Branch

Attachments Invoice & Certifications

Distributions Orig & 2 - Addressee

1 - TSD/FASS

2 - TSD/RB

I CERTIFY THAT FUNDS ARE AVAILABLE, 18,967 QUIGATION ESCRIPTOR NO.

AUTHORIZING STIKER

My H Jt.

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32100

INVOICE

For Services

\$16,026.40

CERTIFICATIONS

(1) It is hereby certified that this is Invoice 11 applying to Sub-project No. 22 of MKULTRA, that performance is satisfactory, that services are being accomplished in accordance with mutual agreements, that a detailed agenda of the payments and receipts is on file in TSD/RB, that this bill is just and correct and that payment thereof has not yet been made.

Chief, TSD/Research Branch

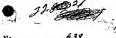
Date:

(2) It is hereby certified that this invoice applies to Subproject of MKULTRA which was duly approved, and that the project is being carried out in accordance with the memorander of i3 April 1953 from the DCI to the and the extension of this authority in subsequent memoranda.

Research Director

Date:





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Cost Account
Object Class

Date	Remarks and References	Obligations Incurred	Obligations Liquidated	Unliquidated Balance
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31 27-72-**99**

27 September 1961

A, B

MEMORANDUM FOR: COMPTROLLER

ATTENTION

r Finance Division

Under the authority granted in the Memorandum dated

SUBJECT

Project MKULTRA, Subproject #22
Additional Authorization #9

U 13 April 1933 from the DCI to the and the extension of this authority in subsequent memoranda, Subproject 22 has been approved, and \$16,026.40 of the over-all project MKULTRA funds has been obligated to cover the subproject's expenses and should be charged to Allotment 2125-1390-3902.

APPROVED FOR
OBLIGATION OF FUNDS:

Chief, TSD/Research Branch

Research Director

search Director

Distribution:

Orig & 2 Addressee

Y- TSD/FASS

2 - TSD/RB

(27 Sept. 61)

AUTHORIZING CHICES

CERTIFY THAT FUNDS ARE AVAILABLE



27 September 1961

A,B,C

MEMORANDUM FOR: THE RECORD

SUBJECT

: Project MKULTRA, Subproject #22

- 1. The purpose of this Subproject is to provide funds to continue the researches of Prof. On the isolation of compounds from natural products which have psychogenic properties. Prof. Is concentrating his studies on isolation and identification of active materials in the fungus Amanita muscaria. Studies will be extended to active principles in Rhynchosia phaseoloides.
- 2. Progress in the studies of Amanita has been significant to date. It is believed that the chemical entity primarily responsible for the hallucinogenic effects of Amanita muscaria has been isolated. Because of the extremely small amount in the fungus, and due to the lack of sufficient quantities of plant material the amount isolated has been insufficient for complete structure elucidation. Effort during the coming year will be directed to obtaining adequate supplies of fresh material and the carrying out of various extraction and concentration procedures. Chemical and biological techniques will be utilized to identify and characterize the active principles which are of interest to TSD.



13

for transfer of funds to the investigator. The estimated cost as outlined in the budget proposal is \$15, 410.00. To this must be added the 4% service charge to the cutout, making the total cost for one (1) year not in excess of \$16,026.40. Charges should be made against allotment 2125-1390-3902.

- 4. A Memorandum of Agreement has been signed by the contractor whereby title to permanent equipment is retained by the lieu of higher overhead charges and arrangements are made for accounting for funds disbursed under the grant.
- 5. It has been mutually agreed that documentation and accounting for travel expenses under the grant which are reimbursable by the shall conform with the accepted practices of that institution.
- 6. Prof. holds a covert clearance under Project MKULTRA and has agreed to comply with the terms of the Memorandum of Agreement.

APPROVED FOR OBLIGATION OF FUNDS:

TSD/Research Branch

H

Research Director

Date:

Attached: Budget

Distribution: Orig. only

Д

PROFOGAL TO

RENEWAL OF A RESEARCH GRANT

Investigation of the Physiologically Active Frinciples of Amanita Muscaria and Other Plants of Potential Medicinal Value

Grant date: November 1, 1961 - October 31, 1962

Principal Investigator

Executive socratary

President

BUTTORT PROPOSAL 1961-62

Salaries and wages --

Post Doctorate (12 mo.) .	\$6,000
Director's stipend (3 mo.)	1,500
Student help	500

Travel.

Meetings and travel in connection with work	\$ 600	A
September 1962	1.000	N

Sample collection and preparation ---

1,000 pounds of Aranita Muscaria at \$2.00/lb., etc. \$2,500

Analyses, literature and special chemicals, etc. -- \$ 500

Equipment --

Unimelt Melting Point Apparatus
Rotary Molecular Still, Ozone Meter

\$ 000

0verhead 15% 2,010 \$15,410 16 December 1960

Gentlemen:

We are pleased to be able to transmit to you the following funds:

Check drawn on the Company of B, dated 15 December 1960, For \$8,634.57.

Check drewn on the of , dated 15 December 1900, for \$345.38.

These funds represent a contribution for the use of your directors in carrying out the very worthwhile research goals of your organization.

Yours truly,

Enclosures: (2)

29 November 1960

MEMORANDUM FOR: CHIEF, FINANCE DIVISION

WIA

TSD/Bulget Officer

SUBJECT

- MAULARA, Subproject 22, Invoice #10 Allotsent 1125-1009-1902
- 1. Invoice No. 10 in the amount of \$9,645.38 covering the above subproject is attached. However, due to refunds of \$665.43 from this project (as per attachment) payment should be made as follows:

Cashier's check in the amount of \$8,634.57, drawn on a strong bank Cashier's check in the amount of \$345.38, drawn

on a bank. Both checks should be made payable to

2. The checks should be forwarded to Chief, TSD/Research Branch, through TSD/Budget Officer, no later than Wednesday, 7 December 1960.

3. This is a final invoice. However, since it is anticipated that additional funds will be obligated for this project, the files should not be closed.

TSD/Research Branch

Attachments Invoice & Certifications

Distributions Ottg & 2 - Addresses

- TSD/FASS

THE AMOUNT OF \$345.37 CHECK

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1125-1340-2912

THE AMOUNT OF SEASON RECEIVED.

LOSSION PROPERTY

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\$8,979.95

For Services

\$9,672,00



CERTIFICATIONS

(1) It is hereby certified that this is Invoice No. 10 applying to Subproject 22 of MODITA, that performance is satisfactory, that services are being accomplished in accordance with mutual agreements, that a detailed agends of the payments and receipts is filed in TSD/RB, that this bill is just and correct and that payment thereof has not yet been made.

Chi	ef, TSD/Research Branch	

(2) It is hereby certified that this invoice applies to Subproject 22 under MGULTAN which was duly approved and that the project is being carried out in accordance with the memorandum dated 13 April 1953 from the DDI to the DD/A, and the extension of this authority in subsequent mesogranda.

		Research Director	
ate:			

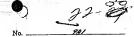


22-29

(3) It is hereby certified that Under subproject 22 at the close of FY59 a balance of \$665.43 representing unused funds remained in subproject 22. Additional funds (FY 1125-1009-1902) have been approved for continuing subproject 22. Therefore, it is requested that \$665.43 of Invoice No. 10 be credited subproject 22 as a return of unsed funds (FY 9-2502-75-902), MOR 2707.

	Chief, TSD/Research Branch
Date:	· ·
	Research Director
Date:	The second secon





Object Class

Date	Remarks and References	Obligations Incurred	Obligations Liquidated	Unliquidated Balance
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15 November 1960

MEMORANDUM FOR: COMPTROLLER

ATTENTION

: Finance Division

SUBJECT

Project MKULTRA, Subproject #22 Additional Authorization #8

Under the authority granted in the Memorandum dated 13 April 1953 from the DCI to the DD/A, and the extension of this authority in subsequent memoranda, Subproject 22 has bees approved, and \$9,672.00 of the over-all project MKULTRA funds has been obligated to cover the subproject's expenses and should be charged to Allotment 1125-1009-1902.



TSD/Research Branch

APPROVED FOR OBLIGATION OF FUNDS:

Research Director

Distribution: Orig. & 2 - Addressee

1 - TSD/OC





72-32

15 November 1960

MEMORANDUM FOR: THE RECORD

SUBJECT

: Project MKULTRA, Subproject #22

1. The purpose of this Subproject is to provide funds
to continue the research of Prof.

isolation of compounds having psychogenic and related properties from natural products. Prof. is concentrating his C
studies on Rivea Corymbosa variety and Amanita

Muscaria and has isolated some active materials which are of interest.

2. Difficulties in obtaining properly documented raw materials in sufficient quantity for further research have been to a large extent overcome.—Considerable renewed interest on the part of several drug companies of foreign origin in related fungi and plant materials believed to have central nervous system activity indicate that there may be chemical compounds in the natural products under study of considerable TSD interest.

serve as cutout for transfer of funds to the investigator. The





estimated cost for the coming year of the work is \$9,300.00. To this must be added the 4% service charge to the cutout, thus the total cost for one year will not exceed \$9,672,00. Charges should be made against allotment 1125-1009-1902.

- 4. A Memorandum of Agreement has been signed by the contractor whereby title to permanent equipment is retained by the University in lieu of higher overhead charges and arrangements are made for accounting for funds disbursed under the grant.
- 5. It has been mutually agreed that documentation and accounting for travel expenses under the grant which are reimbursable by the University shall conform with the accepted practices of that institution.
- 6. Prof. holds a covert clearance under Project MKULTRA and has agreed to comply with the terms of the Memorandum of Agreement.

TSD/Research Branch

APPROVED FOR OBLIGATION OF FUNDS:

Research Director

Distribution: Original only

Attached: Budget

BUDGET 1961

SALARIES	\$4,500
SUPPLIES and EQUIPMENT	2,000
SPECIAL CHEMICALS	; 500
SPECIAL ANALYSES	350
TRAVEL & COMMUNICATION	600
LIBRARY SERVICE	150
	\$8,100
OVERHEAD (15% of Direct Costs)	1,200
TOTAL	- \$9,300



4 ---

PROPOSAL TO

from

for renewal of support to investigate

The Physiologically Active Principals of Amenita Muscaria and

Rivea Corymbosa

Principal Investigator

President

82-34

PROGRESS REPORT

for

Grant Fiscal Year 1959-60

During this year work has progressed to the point where crystalline substances with physiological action have been isolated from Rives Corymboss and Amanita Muscaria. Rather than review all the work in detail two papers are attached which describe the principle aspects of the investigation during the year. The first of these, is a paper which has been submitted for publication and regarding Rives Corymboss. The second is an adoption of a paper regarding Amanita Muscaria which was presented before the August 15-25, 1960. Department of Coeststay

U. 3. A.

ARMITAGE

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The efficies was recrystallized from saturant settings to a constant unities point or 155-167. The estimate has been assigned a soluminar for rate of $\Omega_{2}R_{2}\Omega_{1}$, although to many size from C. (6,275, R = 9.075,

= 0.00 % 0.6 (c.e.l.006 kg./kl. in instancel); calculated for C₂₃8₃69; C = 64.00%, H = 8.79%. Aprillar wathyl h.30%, and calculated for covering the color of the content of the conte

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[2] 10-active e-ethyl plants through which has been characterized. The ultraviolet spectrum is skatar to that

Cromatysis was rea by

When unstableto; of to publits it has been shown that the glucyatte is approximately five these as potent a control nervous system attailent as is the initial atherbolic extract of <u>biglivent</u>. Dates above the level of \$1.0 cg./%c. prove fatal to took anisals within 5-10 simples.

In the final stooms of the preparation of this vegor; the report of and income of the preparation of this vegor; the report of and income of the preparation of the validity of the formulae we are reporting. Wearsel, it is possible that it reported by and linear differ from the glucosice reported have, it is next limit, that the pre-are identical. In all cases our arealistical years are reported to reconstruction, constant soliting compounds.

Indicated complete scotylation. On the basis of the evidence symilable to date, we believe the carbon skeleture of the allucous to be a hydrogen-steel symmetraphilaese raich constants for the allucous to be a hydrogen-

reced to bridged addors.

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The flegbiglies (not included) given a nycologists stav of the plant material which is the subject of this paper. A variation of the same species has yellow coloration with white vericles. Strictly speaking this is not a poisonous plant cor is it, a took atool as same have tailed it.

For several ceaturies a large number of investigators from various countries have abulted this beautiful fungue with different viergoints. Chemista, physiologista, pharmacologists, pathologists, betanists, excologists and recently, as well as saved hondred years ego, anateur explorers such as Albertus Regnus in 1256 and hadd! Swithin the past tive years:

Practitioners in the field of psychoneurosis and extra sensory perception also have investigated and reported on the numbrous. As a result there is an expirous rate of literature on the subject, some of which is open to considerable doubt and some of which is contradictory, schelars, which may or may not have besid in truth; data interest in the riant to the minth century when Norse tribus are reported to have used it under the name Fluggroup (or fly mistross) as a negrotic which have rise to the Percentaging of the same period of Viking history.

It is a well established feet that the fungus is still used by certain measure plantian tribes for its chrectic applications and effects. Although it was these characteristic psycophasmacologic effects in humans which spurred research on Aranta Successe, the characteragent (or agents) which give rise to the effects has not been reported in the literature.

An impressive execute of work has been reported by easy variets on the isolation and proof of structure of emergins from the its Macaria. This alkaloid of unusual structure and high toxicity has physiological effects in humans and test appeals which beard alight recombinue to the main effects of the ingested whole multiples. Ealth of emigration have been isolated in pure form and its structure

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SIGN IT

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SLIDE TO

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followed.

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Tea

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TINKI CARA

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C Assatts Musceria:

SLIDE XIII V

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MIDE XX.

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STICK XXIII

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who at a later data. Thus this offices been repayable an inicatifish crystalling bubatance.



Research Plans for 1960-61.

As indicated in the accompanying progress reports and papers related to the research supported by the grant, several crystalline substance have been isolated from Amanita Muscaria and Rives Corymbosa. Future work will be organized to accomplish the following objectives:

- Ascertain, by means of biological testing, which, if any, of the crystalline materials exhibit significant physiological effects in test animals. (This work is being carried out under the supervision of Draman at the
- Complete fractionation and purification of crude concentrates which exhibit physiological effects in test animals. When pure crystalline substances are isolated they will be identified or structural elucidation will be attempted.
- 3. For those substances, which exhibit significant physiological effects and which have novel structure, an attempt will be made to synthesize them and compounds with related structure in order that relative physiological activity can be determined.

At the recent was revealed that has isolated three indolic compounds related to Lysergic acid from Rivea Corymbosa. Also it was learned by private conversation that research teams of several of the countries leading drug firms have isolated flavanoid glycosides from Rivea Corymbosa. The structures have not been determined nor has work been published other than that by (1960). As a result of these developments less emphasis vivil edirected toward continuation of this investigation. Dr who as a pre-doctoral graduate student worked on this problem, is now located at and plans to complete structural elucidation of the givcosing isolated in our laboratory from Rivea Corymbosa. If it is possible to obtain a sizable quantity of Rivea Corymbosa from an area in the where the plant is used for medicinal or occult purposes, then it is proposed that the sample be carefully investigated to ascertain if it contains indolic compounds or glycosides significantly different from the samples collected in areas where the plant is not utilized for its physiological action.

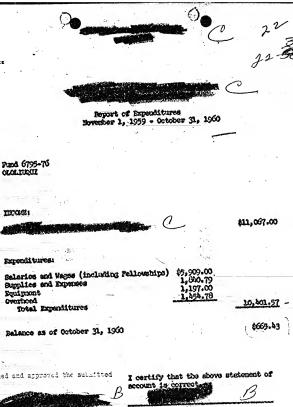
PROPOSED BUDGET FOR FISCAL YEAR 1960-61 November 1, 1960 - October 31, 1961

Research Fellowship (a) \$200 per month \$2400
Miscellaneous student help (a) \$1.50/hr. (400 hrs.) 600
Stipend for senior investigator (during summer) 1500
Special chemicals, natural product samples, and supplies (expendable)
Special analyses on research samples 350
Travel and communication in connection with project 600
Special books, reprints, manuscript and slide preparation and translations related to project 150 //
Capital Items:
1. Ozone meter for ozonolysis apparatus which we have
2. Matching funds for photoelectric attachment for Model No. 80 Rudolph Polarimeter 500
Components (sweep unit, coils and probe) to adapt our NRR for fine line work in 1400
Connection with project
\$8100
Indirect costs (15% of request) 1200 8/ 215
Total request in renewal of grant \$9300









I have examined and approved the submitted expenditures.

TEXTE

Tal Chemical Division Datem //2 2/60

Business Manager



32-90

BUSINESS OFFICE



Report of Expenditures November 1, 1959 - October 31, 1960

Pund 6795-76 CLOLIUCUI

INCOME

Commence of the second

\$11,067.00

Expenditures:

10,401.57

Balance as of October 31, 1960

\$665.43

I certify that the above statement of account is correct

Business Manager

1636

Report of Expenditures November 1, 1959 - October 31, 1960

Fund 6795-76

BUSINESS OFFICE

DICOME:

Expenditures:

Salaries and Wages (including Fellowships) \$5,909.00 Supplies and Expenses 1,840.79 Equipment Overbeed Total Expenditures

10.401.57

Balance as of October 31, 1960

\$665.43

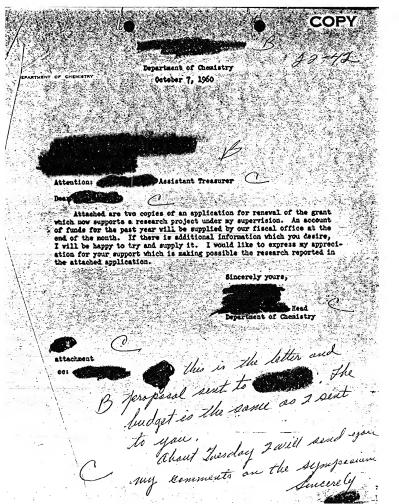
I have empined and approved the submitted

TSS/Chamical Division

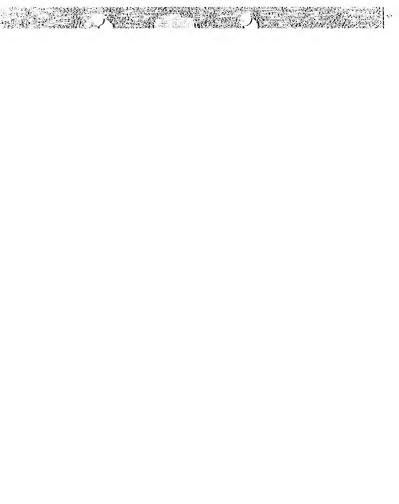
Dato 1 2 4 march 1961

expenditures.

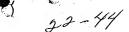
I certify that the above statement of



Distributions (*) Corly (v.a. - Addressed La, TSD/YASS







27 January 1960

MEMORANDUM FOR: THE RECORD

SUBJECT

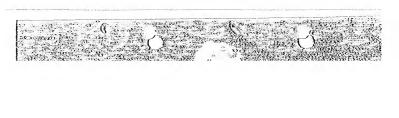
: Action on MKULTRA Audit Exceptions -- TSS/CD

SP#22

A. \$1,703.57 was used for SP#51 per memo dated 21 August 1959. Reproject in the near future.

Chief

TSS/Chemical Division



22-45



Report of Expenditures
July 1 to October 31, 1959

Fund 6795-76 OLOLIUQUI:

Overdraft, June 30, 1959

В

\$ (185.32) ---5,365.00

Expenditures

Salaries & Wages (including fellowships) Supplies and Expenses

Equipment Overhead Total \$1,960.00 334.24 1,294.63 1,590.81

5,179.68

Balance, October 31, 1959

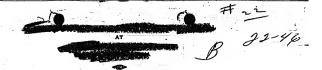


I have examined and approved the submitted expenditures.

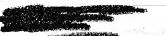


TSS/Chemical Division

Date: 217 1961



July 30, 1959



Executive Secretary-Treasurer (

Dear

Enclosed is the financial report as prepared by our treasurer on the grant which your organization made to Dr. The report covers the full period from November, 1957, to June 30, 1959. We will be happy to furnish further itemizing should you so require.

I am happy to report that considerable progress is being made on this rather difficult project. Dr. (1) has two very promising doctoral candidates assigned to the problem. They are devoting a great deal of time and concentrated effort to this investigation. We are grateful to the fine support this organization has given us for this particular investigation.

Sincerely

Executive Director

cc/ transmit

0

C



Period of Report November 12, 1957 to June 30, 1959

Fund 6795-76 OLOLIUQUI:

Income

\$21,684.00

Expenditures

Salaries and Wages Supplies and Expenses Equipment

Total Expenditures
Overdraft, June 30, 1959

\$7,141.73 1,418.38

21,869.32

\$185.32

I have examined and approved the submitted expenditures.

Chief TSS/Chemical Division

Dates

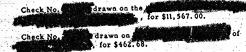
7 OCT 1959

8 September 1959 52-42

B

Gentlemen:

We are pleased to be able to transmit to you the following funds:



These funds represent a contribution for the use of your directors in carrying out the very worthwhile research goals of your organization.

Yours truly,

Enclosures: (2)

Remarks and References

Date

1- 22-49

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		Object Class						
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19-50

25 August 1959

MEMORANDUM FOR: CHIEF, FINANCE DIVISION

YIA

TSS/Budget Officer

SUBJECT

MKULTRA, Subproject 22, Invoice #9 Allotmest 9-2502-75-902

. Invoice #9 covering the above subproject is attached. Payment should be made as follows:

Cashler's check in the amount of \$11,567.00, drawn

Cashier's check in the amount of \$462.68, drawn on

Both checks should be made payable to

2. The checks should be forwarded to Chief, TSS/Chemical Division, through TSS/Budget Officer, no later than 4 September 1959.

CANADA CA 3. This is a final invoice. However, since it is anticipated that additional funds will be obligated for this project, the files should not be closed.

> Chief TSS/Chemical Division

A

IN THE AMOUNT OF BYELL! Invoice & Certifications REGEIVEL

Distribution:

Orig & 2 - Adds me character and

THE AMOUNT OF SALES

RECEIVED



For services

\$12,029.68

CERTIFICATIONS

(i) It is hereby certified that this is invoice No. 9 applying to MKULTRA Subproject 22, that performance is satisfactory; that the services are being accomplished in accordance with mutual agreements, that a detailed agenda of the payments and receipts so file in TSS/CD, that the bill is just and correct and that payment thereof has not yet been made.

Chief, TSS/Chemical Division

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Date:	A	the Sales and		Se Stanfferman . But

(2) It is hereby certified that this invoice applies to MKULTRA Subproject 22, which was duly approved, and that the project is being carried out in accordance with the memorandum dated 13 April 1953, from the DCI to the DD/A, and the extension of this authority in subsequent memoranda.

Research Director

Date:



GERTIFICATION

1525 2017 1000

(3) It is hereby certified that the program under subprojects 49 and 59 have been satisfactorily completed and returned unused funds. However, subproject 22, which is still continuing also refunded money. Therefore, it is requised that the amounts all shown below on Invoice No. 10 of subproject 51-B be credited to the subprojects as shown below.

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Proje	ct	mount	MOR	Allot	ment
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Chief, TSS/Chemical Division

Date:

Research Director

Date:

25 June 1959

MEMORANUM FOR COMPTROLLER

? Finence Division

- Project MINIARA, Sobproject 22
- Additional Authorization #7

Under the authority granted in the Memorandum dated 是《基础的数据》的对象是是"不是一个"的一个"一个"。 13 April 1953 from the DCI to the DD/A, and the extension of this BARRY MARIE WILLIAM STATE OF THE STATE OF TH authority in subsequent secorands, Subproject 22 has been approved, and \$12,029.68 of the over-all project MCDLTBA funds hos been chligated to cover the subproject's expenses and should be charged

to Allotsent 9-2502-75-902.



288/Chemical Division

APPROPRIO POR CRIZOATION OF FUNDS:

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	1	- TSS	/∞		

- TSS/FASB

(29 June 1959)



MEMORANDAM FOR: THE RECORD

SUBJECT

: Project MKULTRA, Subproject 22

1. The purpose of this Subproject is to provide funds to continue the research of Prof. on the isolation of compounds having psychogenic and related properties from natural products. It is concentrating his studies on Rivea Corynbosa Compounds variety and Amanita Muscaria and has isolated some active materials which are of interest.

- 2. Difficulties in obtaining properly documented rav
 materials in sufficient quantity for further research have been to
 a large extent overcome. Considerable renewed interest on the part
 of several drug companies of foreign origin in related fungi and plant
 materials believed to have central nervous system activity indicate
 that there may be chemical compounds in the natural products under
 study of considerable 755 interest.
- 3. cutout for transfer of funds to the investigator. The estimated cost for the coming year of the work is \$11,567.00. To this must be added the $\frac{1}{2}$ service charge to the cutout, thus the total cost for one year $\frac{7}{2}$ will not exceed \$12,029.68.
- 4. A Memorandum of Agreement has been signed by the contractor whereby title to permanent equipment is retained by the University in lieu of higher overhead charges and arrangements are made for accounting the funds disbursed under the grant.



- 5. It has been mutually agreed that documentation and accounting for travel expenses under the grant which are reimbursable by the University shall conform with the accepted practices of that institution.
- 6. Prof. holds a covert clearance under Project MULITRA and has agreed to comply with the terms of the Memorandum of Agreement.

Chief TSS/Chemical Division

130 / Resemb Bromb

APPROVED FOR OBLIGATION OF FUNDS:

100		
-		
	Research Dire	ctor
	(120	100

Date: 0|30 157

Attached: Budget

Distribution: Original only

BUDGET FOR 1960

TOTAL

NAME OF STREET

\$11,567.00





22-50

Budget for One Year Renewal of Research Project on Investigation of Amenita Muscaria and Rivea Corymbosa - Nov. 1, 1959-Oct. 31, 1960

Research Fellowships - two	(a) \$200 per month \$4800.00	
Senior Investigator - during	summer 1200.00	
proof	c desalting apparatus, explosion homogenizer, vacuostat, spinning paper tography apparatus, etc.) 2410.00	
Special Chemicals and suppli Department of Chemistry .	es not ordinarily stocked by 850.00	
Special analyses on research	samples 300.00	
Travel and telephone in conn	ection with grant	
Miscellaneous - phottocopy,	monographs, etc 50.00 \$ 10,060.00	
	15% overhead 1,507.00	÷
- w	Total grant request \$11,567.00	



6 January 1959

POR MEMBERSHER

Finance Division

SCHURCT

Project MULICA, Subproject 22 Additional Authorization #6

Under the authority granted in the Memorandum dated 13 April 1953 from the DCI to the BD/A, and the extension of this authority in subsequent memoranda, Subproject 22 has been approved, and \$394.68 of the over-all project MULITER funds has been obligated to cover the subproject's expenses and should be charged to Alletment 9-2502-75-902.

788/Chemical Division

APPROVED FOR CHLIGATION OF FURDS:

arch Director

7 7AN

Distributions Orig & 2 - Addressee

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-1 TSS/FASB 1 - TSS/SRB

2 - TSS/CD

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's progress request has been vell received by our Hoard of It is to be commended for his success and crativitie efforts in Hazzilicial of research . In a small vay, we are proud to be of

(Allasa Hold of roberte), in a significant to the Market Market of the Control of Casteral.

In was pleased to to able to transmit to you the following

EDED from represent a contribution for the use of your directors in curring out the very vertically research goals of your organization.

Yours truly,

Englocurent (2)

3 Movember 1958

MEMORAHUM FOR: CHIEF, FINANCE DIVISION

TIA

1 198 / Baiget Officer

SUBJECT

MINUTEA Subproject 22, Invedes No. 8
Allotsent 9-250?-75-902

1. Invoice \$6 covering the shore subproject is attached.
Payment should be unde as follows:

Cashier's check in the amount of \$9,867.00 drawn on a

Cashier's check in the assent of \$394.68, dress on a

Both checks should be made payable to

2. The checks should be forwarded to Chief, 198/Chemical Division, through 198/Dudget Officer, no later than 17 Nov. 58.

3. This is a final involce. However, since it is anticipated that additional finds will be obligated for this project the files should not be closed.

Chief Parision

Attachments: Invoice & Certifications

Distribution:

Orig & 2 - Addressee

1 - TSS/FASB

W (824KE) W

For services

\$10.261.68

PRETTYTCATTORS

(1) It is hereby certified that this is Invoice No. 8 applying to MEWITH Subproject 22, that performence is satisfactory; that the services are being accomplished in accordance with mutual agreements, that a detailed agenda of the payments and receipts is on file in TSS/CD, that the bill is just and correct and that payment thereof has not yet been made.

Chief, T68/Chemical Division

Dates

(2) It is hereby certified that this invoice applies to MEULTRA Subproject 22, which was duly approved, and that the project is being carried out in accordance with hhe memorandum dated 13 April 1953, from the DCI to the DD/A, and the extension of this authority in subsequent memoranda.

Dates

Besearch Director



MEMORANDUM FOR: CHIEF, FINANCE DIVISION

VIA:

TSS/Budget Officer

SUBJECT

MKULTRA Subproject 22, Invoice No. 6 Allotment 7-2502-10-001

I. Invoice No. 6 is attached covering the above subproject. Payment should be made as follows:

Cashier's check in the amount of \$158.67, drawn on &

Cashier's check in the amount of \$3,965.67, draws on

Both checks should be made payable to the

"我们我们是

- 2. Please forward the checks to Chief, TSS/Chemical Division through TSS/Budget Officer by Tuesday, 18 June 1957. THE RESIDENCE OF A PARTY OF A PARTY.
- 3. This is a final invoice. A total of \$5, 188.00 was obligated under this subproject during FY 57. However since it is anticipated that additional funds will be obligated for this project, the files should not be closed.

CHECK#045

Chief TSS/Chemical Division

Attachments: Invoice & Certifications からかけ のできる

Distributions Orig & 2 - Addressee

1 - Comptroller

. 887-001226-600.1-2002100001-1511-412534) 4 4 125.34

TATIFIED FOR PAYMENT OR CREDI

CHORIZED CERTIFYING OFFICER



INVOICE

For services

84, 125, 34



CERTIFICATIONS

NEWSCHOOL STATE

(1) It is hereby certified that this is Iavoice No. 6 applying to MKULTRA Subproject 22, that performance has been satisfactory, that the services have been accomplished in accordance with mutual agreements, that a detailed agenda of the payments and receipts is on file in TSS/CD, that this bill is just and correct and that payment thereof has not yet been made.

Chief. TSS/Chemical Division

Date:

(2) It is hereby certified that this invoice applies to MKULTRA Subproject 22, which was duly approved, and that the project is being carried out in accordance with the memorandum dated 13 April 1953, from the DCI to the DD/A, and the extension of this authority in subsequent memoranda.

Research Director

Date



MISCELLANEOUS OBLIGATION RECORD

NUMBER

CHARGE

FIECAL YEAR ALLOT, COOR NO. OBJECT CLASS

9 3502-75-762

INSTRUCTIONS: Prepara original only
PAYMENT DATA

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9 27-64

2h October 1958

RELIGIETANO INON MODIFICACIONE

Transfer : Finance Division

SUBJECT 8 Project Militia, Subproject 22

Additional Authorization #5

Under the authority greated in the Memorandum dated

13 April 1953 from the ROI to the ED/A, and the extension of this
authority in subsequent memorands, Subproject 22 has been approved,
and \$9,857.00 of the over-all project MINITM funds has been
chlighted to cover the subproject's expenses and should be charged
to Allotment 9-2502-75-900-

Chief TSS/Chemical Division

APPROVED FOR CHLICATION OF FUNDS

Assessed Director

Date

2.00

Distribution: Orig & 2 - Addresses

1 - TSS/CC 1 - TSS/FASB

1 - TSS/SRB 2 - TSS/CD CERTIFY THAT FUNDS ARE AVAILABLES.

OBLIGATION RESERVES NO. 1059

CHARGE TO AUDITABLE NO. 9-0585-75-702

AUTHORIZING OFFICER

3 November 1958

MEMORANDOM FOR: CHIEF, PINANCE DIVISION 788/Budget Officer

MINITEA Subproject 22, Invoice No. 8 Allotment 9-259-75-902

1. Invoice #8 covering the above blect is attached. Payment should be made as follows:

Cashier's check in the secunt of \$9,867.000

Ceshier's check in the amount of \$394.68, drawn

Both checks should be made payable to

2. The checks should be forwarded to Chief, TSS/Chomical Division, through TSS/Budget Officer, no later than 17 Nov. 58.

3. This is a final invoice. However, since it is anticipated that additional funds will be obligated for this project the files should not be closed.

> Chief 128/Chemical Division

Attachments Invoice & Certifications

Distributions

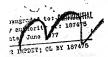
Orig & 2 - Addressee

1 - Comptroller

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obligated fetals.	多上京 和1000
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2. Purmed of Projects	
Natural Product	
3. Progress to Date:	Satisfactory
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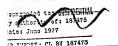


23 October 1958

MEMORANDUM FOR THE RECORD

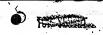
SUBJECT : Project MKULTRA, Subproject 22

- 1. The purpose of this Subproject is to provide funds to continue the work of Prof. On the isolation of psychogenic compounds from natural products. Prof. has been working on Rivea Corymbosa and Amanita Muscaria and has been able to isolate a number of interesting materials from these sources.
- 2. Progress in this field has been somewhat delayed due to difficulties in obtaining properly documented raw materials; however, sources have now been developed which should correct this difficulty and make possible the completion of the project. The recent success of the Swiss Chemists in isolating and elucidating the structure of a new psychochemical from a fungus indicates the feasibility and the necessity of continuing work of this type.
- 3. The vill serve as cutout to transfer of funds to the investigator. The estimated cost of the work is \$9,867.00. To this must be added the 4% service charge to the cutout, thus the total cost for one year vill not exceed \$10,261.68.
- 4. Prof. has signed the Memorandum of Agreement whereby title C to permanent equipment is retained by the University in lieu of higher overhead charges and arrangements are made for accounting for funds disbursed under the grant.





Doungraded to: Commitment by authority of: 187475 date: June 1977





DRAF

- 5. It has been mutually agreed that documentation and accounting for travel expenses under the grant which are reimbursable by the University shall conform with the accepted practices of that institution.
- 6. Dr. holds a covert clearance under Project MKULTRA and Chas agreed to comply with the terms of the Memorandum of Agreement.

Chief.
TSS Chemical Division

Attachment: Budget

APPROVED FOR OBLIGATION OF FUNDS:

A Research Director

to och. 30-1918.

Distribution: Orig. only

sugraded to: 63%FDENTAL authority of: 187475 to: June 1977 18P

BUDGET FOR 1959-60

Salaries, two pre-doctoral fellowships, principal investigator and part-time help	5,460.00
Supplies and equipment	2,000.00
Special chemicals and materials	500.00
Special Analyses on research samples	300.00
Travel and communications	400.00
Library Service	100.00
	8,760.00
Total for basis of computing University overhead	7,260.00
15% Overhead	1,107.00
Total	9,867.00

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WARNING NOTICE

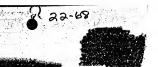
SENSITIVE INTELLIGENCE
SOURCES AND METHODS INVOLVED

UNIVERSITY,

July 1, 1956, through Oct. 1, 1957 2 22-6 Acce 570 -- Final Report

Balance, July 1, 1956 (Per prior report)			\$1 730 74	
Receipts: August 31, 1956, 4th quarter			1 325 00	Acres :
January 31, 1957, 1st quarter			1 487 50	
March 18, 1957, 2nd quarter		,	1 487 50	
June 24, 1957, 3rd quarter			1 407 50	
Total to be accounted for			7 518 24	
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Expenditure and charges:				
Total direct charges per prior report, 2/28/57	4 202	46	1 = 2mi	distriction
Salaries, 6 mos. @ 150.00	900	99		-
Travel expense, Dr.	30	00		
Telephone and telegraph	8	03 %		
Supplies and Miscellaneous	145	57	1-37	
Total Direct Charges	5 286	cs _		
Overhead, 10% of Direct Costs	528	£1	5 814 67	
Unexpended Balance, Oct. 1, 1957			\$1 703 57	0/

* Check for \$1,703,57 to gover refund of unempended balance for warded to



Mr. 1985 Saltenation

2 November 1957



This is to acknowledge the receipt of the following checks;

Check #G 20251 drawn on the state of the sta

Check #DM 43521 drawn on the

Your generous contributions are greatly appreciated. The funds will be utilized by our Board of Directors in furthering worthwhile research projects in the field of medical sciences.

Yours truly ;



Executive Secretary - Treasurer



Request for renewal of support for the project; Investigation of the seed of Rivea Corymbosa (oloiuqui).

Summary of work, November 1, 1955 - September 25, 1956:

Physical examination of the seed used in this work reveals that two "types" have been under investigation. Taxonomically all the seed have been called Rivea Corymbosa although one variety (the sood are the larger of the two varieties) originated in Mexico and one variety originated in Cuba. The literature on the subject of ololiuqui, as for as I can ascertain indicates that its use as a psychic drug has been restricted to Mexico. This data slone would indicate the probability that the Cubor arristy lacks some physiologically active component which the Maxican variety contains. Experimental work in this laboratory has been largely restricted to the Culan variety (small has been available. The chemical work, although not designed to compare the composition of the low varieties, has indicated some difference in the two. Also physiological tests on humans are indicative of a difference in the two varieties. This work is much too included in the two more than accoulation at this time.

In addition to the solution of glucose and hydro-quinone as constituents of collingui as reported in the last progress report, to chystalline fractions have been isolated which seem in ther to be alkaloid or glycoside.
Due to the small quantity of seed available the amount
of these crystalling fractions is extremely small and little more than quilitative tests have been made on then. Experimental techniques; especially in extraction and soparation have been perfected which will be used to isolate pure components of the drug which, just today, has become available in sufficient quantity to make the investigation profitable.

Plans for futire investigation:

Now that 50 pounds of the Cuben veriety and 10 pounds of the mexican variety are available, the following lines of investigation will be actively pursued.

1. Determine conclusively if there is a chemical

difference in the two varieties of seed.
2. Obtain as many "pure" components from each variety,
using previously perfected techniques, as is possible.
3. Submit for physiological testing each "rure"

component.

4. Subject each "pure" component to chemical examination to determine the type of compound, whether it is a known compound and its chemical composition if it is a new compound.

Proposed budget, November 1, 1956 - November 1, 1957.

and special chemicals	350.00
Travel expenses	500.00
Salaries (one graduate as help and director's stipe	end
Miscellaneous	100.00
	Total \$5950.0
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14 October 1957

MEMORANDUM FOR: CHIEF, FINANCE DIVISION

WIA

1 TSS/Budget Officer

SUBJECT

MKULTRA Subproject 22, Invoice No. 7
Allotment 8-2502-10-001

1. Invoice \$7 covering the above subproject is attached.
Payment should be made as follows:

Cashier's check in the amount of \$16, 819, 00 drawn on a

Both checks should be made payable to

B

- 2. The checks should be forwarded to Acting Chief, TSS/Chemical Division, through TSS/Budget Officer, no later than Friday, 18 October 1957.
- 3. This is a final invoice. A total of \$17,491.76 was obligated under this subproject during FY 58. However, since it is anticipated that additional funds will be obligated for this project, the files should not be closed.

Acting Chief TSS/Chemical Division

Attachments: Invoice & Certifications

Distribution:

Orig & 2 - Addressee

1 - Comptroller

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INVOICE

For services

\$17,491.76

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(i) It is hereby certified that this is Invoice No. 7 applying to MKULIEA Subproject 22, that performance has been eatiefactory; that the services have a complished in accordance with mutual agreements, that a detailed agenda of the payments and receipts is on file in TSS/CD, that this bill is just and correct and that payment thereof has not yet been made.

Acting Chief, TSS/Chemical Division

Date

[2] It is hereby certified that this invoice applies to MKULTRA Subproject 22, which was duly approved, and that the project is being carried out in accordance with the memorandum dated 13 April 1953, from the DCI to the DD/A, and the extension of this authority in aubsequent memoranda.

Research Director

Date

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To WASIEG & C. Constron Con neusas ebould by mede as follows:

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&, The cheeks should be forwarded to Acitus Chief, Tes/Chamical Division, through Tes/Budges Officer, no later than Friday, 10 October 1957.

3. This is a flast levelee. A test of \$17, 571.76 was Citivated under tille subproject during FY 58. However, since it to articipated thes additional fundo will be obligated for this project, the files abould not be closed.

> Acits Chief 788/Chemical Division

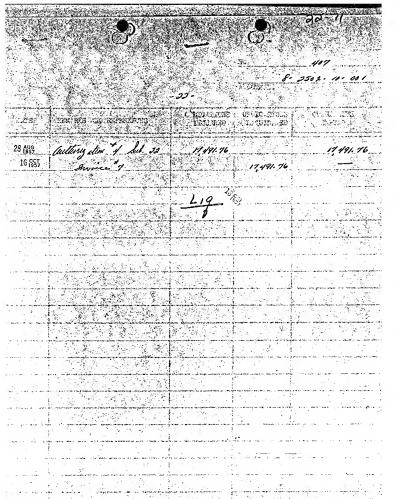
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16 August 1957

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APPROPRIOR & Finance Division

support & Project Intuined, Subproject 22 ##

Under the authority granted in the Hamorendum dated

13 April 1953 from the DOI to the DD/A, and the extension of this
authority in subsequent nemoranda, Subproject 22 has been approved,
and \$17,491.76 of the over-all project EXMITER funds has been
obligated to cover the subproject's expenses and abould be charged
to Allotsent 8-2502-10-00/.

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Acting Chief TSS/Chemical Division

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APPROVED		R 110	87	

Research Director

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Orig & 2 - Addresses

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